

SITE INSPECTION

**Kurt Versen Company
WESTWOOD, BERGEN COUNTY
EPA ID No.: NJD001471614**



New Jersey Department of Environmental Protection
Division of Hazardous Waste Management
Bureau of Planning and Assessment

Agrees w/CERUS qual. 12/10/91
Priority-High SIT G.F.

235361



KURT VERSEN COMPANY
10 CHARLES STREET
WESTWOOD, BERGEN COUNTY, NEW JERSEY
EPA ID NO. NJD001471614

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NARRATIVE

KURT VERSEN COMPANY
10 CHARLES STREET
WESTWOOD, BERGEN COUNTY, NEW JERSEY
EPA ID NO. NJD001471614

GENERAL INFORMATION AND SITE HISTORY

The Kurt Versen Company (Kurt Versen) site, 6.50 acres, is located on Block 1111, Lot 11.01, in an industrial/commercial/residential area of Westwood, Bergen County. The site was vacant undeveloped land prior to 1964, at which time Kurt Versen occupied the site. In 1984 an addition was constructed on the southern portion of the building. The site fronts to the east on Charles Street. To the north the site is bordered by an apartment complex, to the south by the Haunsman Ditch and to the west by the Westwood Cemetery. The current owner of the property, Mr. Richard Anisfield is also the owner of Kurt Versen. The population within a 4-mile radius of the site is approximately 80,000.

SITE OPERATIONS OF CONCERN

Kurt Versen manufactures aluminum industrial light fixtures. As part of this process the aluminum is first treated in acid baths then metal plated or painted. The phosphoric acid used is stored in one 2,000-gallon aboveground storage tank, while the nitric and sulfuric acids used are stored in 15-gallon kegs and 55-gallon drums, respectively.

Arsenic, copper, mercury and zinc are produced as by-products of the metal plating operation and are discharged to the sanitary sewer along with the preneutralized acids (Attachment A).

Approximately five or six 55-gallon drums of water soluble waste oil from the grinders and polishers used at the site are stored inside the facility. Every six months the oil is removed from the site by the Arthur Loeffel Company of West Milford, New Jersey.

On March 18, 1981 the New Jersey Department of Environmental Protection (NJDEP), Division of Water Resources (DWR), Bureau of Metro Enforcement (BME) conducted an investigation at the site which disclosed that untreated sewage and industrial wastewater was being discharged to the Haunsman Ditch, a tributary of the Oradell Reservoir, from a broken sanitary sewer line owned by Kurt Versen. Analysis of samples collected by the NJDEP, DWR, BME revealed arsenic and chromium contamination in the discharged wastewater. The NJDEP, DWR, BME issued a Telegram Order to Kurt Versen on March 19, 1981 requiring the company to cease the discharge and to perform a spill cleanup (Attachment B).

Remedial activities at the site began on March 19, 1981, with the temporary shut-down of plant operations and the installation of a sewer by-pass line. On March 27, 1981 All County Environmental Service Corporation of New Milford, New Jersey removed approximately 11,000 gallons of sludge and water from the ditch. The contaminated material was disposed of at Chem-Clear Inc., of Chester, Pennsylvania. The NJDEP, DWR, BME was on site and verified that the cleanup was completed (Attachment C). The 1984 building addition was constructed over the area where the discharge occurred.

The NJDEP, DWR, BME conducted another investigation at the site on February 25, 1985. This investigation disclosed that compressor cooling wastewater obtained from an on-site well was being discharged to the Haunsman Ditch. Results of samples collected by the NJDEP, DWR, BME revealed that the wastewater contained volatile organic compounds (VOCs) including 1,2 - dichloroethane, tetrachloroethane, toluene and trichloroethane (Attachment B).

On March 5, 1985 the NJDEP, DWR, BME issued another Telegram Order to Kurt Versen requiring that corrective action be implemented to cease the discharge. Kurt Versen then repiped the discharge to the sanitary sewer, thus eliminating the surface water discharge (Attachment B). Kurt Versen maintained that the VOC contamination was already present in the groundwater and since they do not use any VOCs in their process, they were not the source of the contamination.

The NJDEP, DWR, BME conducted a regional groundwater contamination investigation in 1985 in the area surrounding Kurt Versen. Although potential sources were identified, the NJDEP, DWR, BME was unable to determine the source of the contamination; thus, the investigation was discontinued.

In June 1988 one 10,000-gallon #2 fuel oil underground storage tank (UGST), which had been empty for 2 to 3 years was removed from the site by American Environmental Technology (AET) of Norwood, New Jersey. Approximately 26 tons of petroleum hydrocarbon (PHC) contaminated soil was excavated from the site and disposed of at the Breitenstine's Landfill in Pennsylvania (Attachment D).

GROUNDWATER ROUTE

The Kurt Versen facility is located in the Piedmont Physiographic Province. Mudstone, sandstone and conglomerate rock interlayered with igneous rock characterize this area. The dominant formation in the province is the Brunswick Formation consisting of red shale rocks of Triassic age and believed to be approximately 8,000 feet thick.

The Brunswick Formation has little effective porosity, but the rock has been well fractured so that closely spaced joints and fractures occur throughout the formation. Because the rock weathers so easily, the fractures are usually quite open in the zone of weathering and they may extend down to several hundred feet. Overlying the consolidated rocks of the Brunswick Formation are glacial stratified drift deposits. Recharge to the Brunswick Formation is from precipitation infiltrating through the overburden.

In February and March 1985 groundwater samples collected from the on-site well by the NJDEP, DWR, BME and the Hackensack Water Company revealed VOC contamination ranging from 3.0 parts per billion (ppb) toluene to 1,200 ppb trichloroethene. In addition, the Bergen County Utilities Authority (BCUA) required Kurt Versen to obtain an Industrial Wastewater Discharge (IWD) Permit for discharging the process wastewater into the sanitary sewer. This annual permit #90-192 expires on August 8, 1991 (Attachment E).

Periodic sampling of the wastewater by Kurt Versen and the BCUA as a requirement of the IWD permit has revealed chromium and VOC contamination with trichloroethene being the most prevalent contaminant detected.

Concentrations detected range from 100 ppb to 700 ppb for chromium and 0.15 parts per million (ppm) to 0.67 ppm for trichloroethene. While these levels exceed the NJDEP groundwater action levels of 0.0005 to 0.050 ppm for VOCs and 50 ppb for chromium, they are within the regulated limits of the BCUA.

There have been no monitoring wells installed at the site.

The public water supplies located within a 4-mile radius of the site are:

<u>OWNER</u>	<u>DEPTH (feet)</u>	<u>FORMATION*</u>	<u>DISTANCE (miles)</u>
Ridgewood Village	300	GTRB	3.9
Ridgewood Village	320	GTRB	3.6
Waldwick Water Dept.	300	GTRB	3.2
Park Ridge Water Dept.	252	GTRB	3.6
Park Ridge Water Dept.	435	GTRB	3.8
Park Ridge Water Dept.	445	GTRB	3.6
Park Ridge Water Dept.	24	GQSD	3.7
Park Ridge Water Dept.	30	GQSD	3.6
Park Ridge Water Dept.	36	GQSD	3.6
Park Ridge Water Dept.	665	GTRB	3.6
Park Ridge Water Dept.	300	GTRB	3.9
Park Ridge Water Dept.	400	GTRB	2.9
Park Ridge Water Dept.	300	GTRB	3.2
Park Ridge Water Dept.	325	GTRB	2.7
Park Ridge Water Dept.	300	GTRB	3.7

* GTRB = Brunswick Formation

GQSD = Stratified Drift

The population served by these water supplies is approximately 100,000.

The area surrounding the site is served predominantly by public water supplies; however, the following private domestic wells were identified within a 4-mile radius of the site:

<u>OWNER</u>	<u>LOCATION</u>	<u>DEPTH (feet)</u>
F. Rochester	654 Emerson Road, Westwood	150
F. Dietl	639 Broadway, Westwood	150
J. Paydinecy	Lincoln Boulevard, Emerson	115
R. Lebel	78 Lindy Avenue, Rivervale	120
J. Gribbon	155 Washington Avenue, Westwood	75
V. Caggia	23 Beach Street, Westwood	170
K. Tarsio	440 Anstatt Way, Haworth	150
F. Martucci	145 Eagle Drive, Emerson	183
F. Wendell	798 East Drive, Oradell	365
J. Riley	33 Dean Street, Westwood	125
L. Rouberg	521 Rustic Drive, Oradell	150

It is not known if these wells are used as a potable water supply.

The following industrial/irrigation wells were identified within a 4-mile radius of the site:

<u>OWNER</u>	<u>DEPTH (feet)</u>	<u>FORMATION*</u>	<u>DISTANCE (miles)</u>
Brewster & Son, Inc.	360	Trb	3.8
J. Dugan	308	Trb	3.7
Westwood Fuel Co.	236	Trb	1.5
McKenna	605	Trb	2.4
Great Eastern Mills, Inc.	200	Trb	3.3
Great Eastern Mills, Inc.	203	Trb	3.5
N.Y. Twist Drill Co.	200	Trb	3.8
Hackensack Golf Club	532	Trb	1.5
Paramus Freeholders	300	Trb	3.0
Westwood Laundry Co.	125	Trb	0.4
Py Co. Mills, Inc.	150	Trb	3.5
Oldroyd Co.	279	Trb	3.9
Hoke, Inc.	279	Trb	4.0
Hoke, Inc.	276	Trb	4.0
Teledyne Isotopes	400	Trb	0.2
Westwood Swim Club	250	Trb	0.6

* Trb = Brunswick Formation

As part of the NJDEP, DWR, BME regional groundwater investigation, sampling was conducted on the Teledyne Isotopes and Westwood Swim Club wells. The sample results revealed VOC contamination, 3.5 ppb chloroform, 22.5 ppb 1,1,1-trichloroethane and 4.0 ppb trichloroethene, from the Teledyne Isotope well only. These wells are located less than 1 mile from the site and are screened in the same aquifer as the Kurt Versen well.

SURFACE WATER ROUTE

The Haunsman Ditch, which is located downslope, adjacent to the site is part of the local storm sewer system and drains into the Oradell Reservoir, a potable water supply for the Hackensack Water Company, located approximately 1 mile downslope of the site. The only other surface water body located within 15 miles downstream of the site is the Hackensack River, which is the outflow for the Oradell Reservoir and is located approximately 2.5 miles from the site. There is a surface water intake, utilized by the Hackensack Water Company, located on the Hackensack River approximately 3.0 miles from the site. Fifty-nine municipalities, with approximately 700,000 people are served by the Oradell Reservoir and the Hackensack River (Attachment L). The Hackensack River also supports recreational and industrial usage.

A potential does not exist for the contamination of downstream surface waters via runoff from the site. All hazardous wastes generated at the site are stored indoors. The surface water discharges that occurred in 1981 and 1985 were from the direct dumping of wastewater into floor drains that discharge to the storm sewer, which has since ceased.

There are palustrine open water, scrub/shrub broad-leaved deciduous, emergent and forested broad-leaved deciduous freshwater wetlands located within 1 mile of the site, but no coastal wetlands located within 2 miles of the site.

This site is located in the United States Geologic Survey (USGS) Hackensack Quadrangle. In this quadrangle, within 1 mile of the site, is habitat associated with the following federal and state endangered species: bog turtle and upland sandpiper.

AIR ROUTE

The Kurt Versen facility, NJDEP, Air Pollution Control (APC) ID #00615, has nine air pollution control permits issued by the NJDEP, Division of Environmental Quality (DEQ) for tanks and emission control equipment associated with the metal anodizing process line and for two boilers (Attachment F). Since this is an active facility a potential exists for air contamination from the site.

SOIL

The soil underlying the site is classified as Adrian muck, which is typically level or nearly level and very poorly drained. It is generally found in depressional areas on outwash plains. Most areas are oval or elongated in shape and range from 5 to more than 150 acres in size. These soils which are frequently flooded have slopes ranging from 0 to 3 percent.

Permeability is rapid. Surface runoff is slow when this soil is drained. The water erosion hazard is slight, but the wind erosion hazard is high when this soil is cleared and drained. The available water capacity is high. In unlimed areas the reaction is moderately acid to neutral in the organic material and neutral or mildly alkaline in the mineral substratum. The seasonal high water table is ponded or immediately below the surface from November to June in most years. Frost action potential is high. The organic surface layer and subsoil layers have low bearing strength.

Soil sampling was conducted at the site in June and July of 1988 during the excavation of the #2 fuel oil UGST by AET, and by Kurt Versen. The sample results from the June 1988 sampling episode revealed PHC contamination ranging from 10 ppm at the southeast corner of the excavated area to 1,465 ppm at the northwest section of the excavated area (Attachment G). After additional excavation, two samples collected by Kurt Versen in July 1988 at the northwest section of the excavated area revealed PHC contamination of 35 ppm and 102 ppm (Attachment H). This area was subsequently repaved.

Presently all hazardous waste is stored indoors and a potential for future soil contamination from normal plant operations does not exist.

DIRECT CONTACT

Although this site is not fenced or guarded there are no hazardous substances being stored outdoors at the site. The only hazardous waste being stored at the site is waste oil which is stored in 55-gallon drums indoors. During a Pre-Sampling Assessment (PSA) conducted by the NJDEP, Division of Hazardous Waste Management (DHWM), Bureau of Planning and Assessment (BPA) on March 19, 1991, this area was observed to be clean with no evidence of spillage. Therefore, a potential for employee contact with hazardous substances is minimal, while a potential for the off-site population to come into contact with hazardous substances does not exist.

FIRE AND EXPLOSION

There have been no reported fires or explosions at the site and current manufacturing and storage activities would not support a fire or explosion.

ADDITIONAL CONSIDERATIONS

While it is likely that damage occurred to vegetation in and around the Haunsman Ditch during the discharge in 1981, it appears to have been a one time incident that was not indicative of plant operations and was subsequently corrected. A potential for damage to flora, fauna, or off-site property or for contamination of the food chain does not exist at the present time.

ENFORCEMENT ACTIONS

Enforcement actions initiated against Kurt Versen by the NJDEP include a Cease and Desist Order issued in June 1977 by the NJDEP, DEQ for the construction and use of process equipment without the required NJDEP, DEQ air pollution control permits (Attachment I); the previously mentioned two Telegram Orders issued by the NJDEP, DWR regarding the discharges in 1981 and 1985 (Attachment J); and an Administrative Consent and Notice of Civil Administrative Penalty Assessment issued by the NJDEP, DWR in October 1985, also regarding the discharges in 1981 and 1985 (Attachment B).

SUMMARY OF SAMPLING DATA

1. Sampling date: March 18, 1981
Sampled by: NJDEP/DWR/BME
Newark, New Jersey
Samples: One aqueous sample
Laboratory: New Jersey Department of Health
Environmental Chemistry Laboratory
(NJDOH, ECL)
Trenton, New Jersey
Lab Certification #11148
Parameters: Arsenic, chromium and lead
Sample description: Aqueous sample #C32646 from the storm sewer
outfall from the site.
Contaminants detected: Arsenic 4.0 ppb, chromium 788 ppb and lead 84
ppb were detected in this sample.
QA/QC: The sample results did not undergo a formal
review by the NJDEP.
File location: NJDEP/DWR/BME
West Orange, New Jersey
(Attachment K)
2. Sampling dates: February 19, 20 and 25, 1985
Sampled by: Hackensack Water Company
Harrington Park, New Jersey
Samples: Four aqueous samples

Laboratory: Hackensack Water Company
Oradell, New Jersey
Lab Certification #02074

Parameters: Trichloroethene (TCE) and tetrachloroethene (PCE).

Sample description: A catch basin located on Charles Street, a 4-inch discharge pipe and a discharge to the Haunsman Ditch were sampled.

Contaminants detected:

<u>DATE</u>	<u>LOCATION</u>	<u>TCE (ppb)</u>	<u>PCE (ppb)</u>
February 19, 1985	Catch Basin on Charles Street	980	11
February 20, 1985	4-inch discharge pipe	353	17
February 20, 1985	Discharge to Haunsman Ditch	454	ND
February 25, 1985	4-inch discharge pipe	1,200	13

ND = Not detected

QA/QC: The sample results did not undergo a formal review by the NJDEP.

File location: NJDEP/DWR/BME
West Orange, New Jersey
(Attachment K)

3. Sampling date: February 25, 1985

Sampled by: NJDEP/DWR/BME
Newark, New Jersey

Samples: Two groundwater samples

Laboratory: NJDOH, ECL
Trenton, New Jersey
Lab Certification #11148

Parameters: VOCs, metals, PHCs

Sample description: Samples #26088 and #26089, wastewater effluent that originated from an on-site well.

Contaminants detected:

(ppb)	<u>SAMPLE ID</u>	
<u>PARAMETER</u>	<u>26088</u>	<u>26089</u>
arsenic	5	NA
cadmium	2	NA
chromium	10	NA
copper	72	NA
mercury	0.2	NA
nickel	10	NA
lead	59	NA
zinc	724	NA
1,2-dichloroethene	NA	17
tetrachloroethene	NA	4.0
toluene	NA	3.0
trichloroethene	NA	280
PHCs	80.43	NA

NA = Contaminant not analyzed

QA/QC: The sample results did not undergo a formal QA/QC review by the NJDEP.

File location: NJDEP/DWR/BME
West Orange, New Jersey
(Attachment L)

4. Sampling date: June 1985

Sampled by: Garden State Laboratories
Irvington, New Jersey

Samples: One groundwater sample

Laboratory: Garden State Laboratories
Irvington, New Jersey
Lab Certification #07044

Parameters: VOCs, metals, pesticides and herbicides

Sample description: Well water sample from Teledyne Isotopes,
Inc.

Contaminants detected: Chloroform, 3.5 ppb, 1,1,1-trichloroethane,
22.5 ppb and trichloroethene, 4.0 ppb were
detected. Metals, pesticides and herbicides
were not detected in the sample.

QA/QC: The sample results did not undergo a formal
review by the NJDEP.

File location: NJDEP/DWR/BME
West Orange, New Jersey
(Attachment L)

5. Sampling date: July 1985

Sampled by: Laboratory Resources, Inc.
Westwood, New Jersey

Samples: One groundwater sample

Laboratory: Laboratory Resources, Inc.
Westwood, New Jersey
Lab Certification #02046

Parameters: VOCs

Sample description: Well water sample from the Westwood Swim Club

Contaminants detected: Sample results revealed no VOCs detected

QA/QC: The sample results did not undergo a formal review by the NJDEP.

File location: NJDEP/DWR/BME
West Orange, New Jersey
(Attachment L)

The following is a summary of the aqueous samples collected from the sanitary sewer discharge from Kurt Versen:

6. Sampling dates: April 1985 to December 1990

Sampled by: BCUA, Little Ferry, New Jersey and
Kurt Versen, Westwood, New Jersey

Samples: Twenty-nine groundwater samples

Laboratories: BCUA, Little Falls, New Jersey
Lab Certification #02268 and
Laboratory Resources, Inc., Westwood, New Jersey
Lab Certification #02046

Parameters: Metals and VOCs

Sample description: Wastewater effluent that originates from an on-site well.

Contaminants detected: Major contaminants detected are summarized below.

<u>PARAMETERS</u>	<u>SAMPLE ID</u>	<u>DATE</u>	<u>CONCENTRATION (ppb)</u>
chromium	16372	5/85	160
	17481	12/85	213
	18786	4/86	160
	19737	8/86	115
	21669	4/87	135
	22862	9/87	607
	5230	6/88	78
	26410	11/88	100
	88122228-01	12/88	68
	35040	9/90	90
trichloroethene	6442	12/85	670
	4631	9/87	33
	4700	9/87	42
	4701	9/87	15
	6350	12/87	33
	9197	11/88	40
	1	12/88	29
	8904379-01	4/89	15
	2	6/89	50
	30445	10/89	30
	01	12/89	33
	32596	3/90	60.9
	01	6/90	37
	35040	11/90	21.3
	02	12/90	25
1,1,1-trichloro- ethane	4631	9/87	116
	4700	9/87	770
	4701	9/87	170

QA/QC: The sample results did not undergo a formal review by the NJDEP.

File location: BCUA
Little Ferry, New Jersey
(Attachment L)

7. Sampling date: June 21, 1988

Sampled by: AETC
Norwood, New Jersey

Samples: Seven soil samples

Laboratory: Wastex Industries, Inc.
Pottstown, Pennsylvania
Lab Certification #77371

Parameters: PHCs

Sample description: Samples #087, #088, #089, #090, #091, #092 and #093 collected from the #2 fuel oil UGST excavation area.

Contaminants detected:

<u>SAMPLE #</u>	<u>PHC CONCENTRATION (ppm)</u>
087	70
088	15
089	10
090	230
091	75
092	1,465
093	1,250

QA/QC: The sample results did not undergo a formal review by the NJDEP.

File location: NJDEP/DHWM/BPA
Trenton, New Jersey
(Attachment G)

8. Sampling date: June 23 and 24, 1988

Sampled by: Kurt Versen Company
Westwood, New Jersey

Samples: Four soil samples

Laboratory: Laboratory Resources, Inc.
Westwood, New Jersey
Lab Certification #02046

Parameters: PHCs

Sample description: Samples #4A, #4B, #6A and #6B, #6C and #6D collected from the #2 fuel oil UGST excavation area.

Contaminants detected:

JUNE 23, 1988

<u>SAMPLE ID</u>	<u>PHC CONCENTRATION (ppm)</u>
4A	72.5
4B	103

JUNE 24, 1988

<u>SAMPLE ID</u>	<u>PHC CONCENTRATION (ppm)</u>
6A	51
6B	1,140
6C	35
6D	102

QA/QC: The sample results did not undergo a formal review by the NJDEP.

File location: NJDEP/DHWM/BPA
Trenton, New Jersey
(Attachments G and H)

RECOMMENDATIONS

At present there is no active lead agency for the site. The NJDEP, Division of Water Resources, Bureau of Metro Enforcement was the lead agency for this site; however, this case was closed upon completion of the remediation of the wastewater discharges in 1981 and 1985. In addition, the NJDEP, DWR, BME conducted a regional groundwater contamination investigation to determine the source of the VOC contamination in the area groundwater. A definite source could not be determined; therefore, this investigation was discontinued.

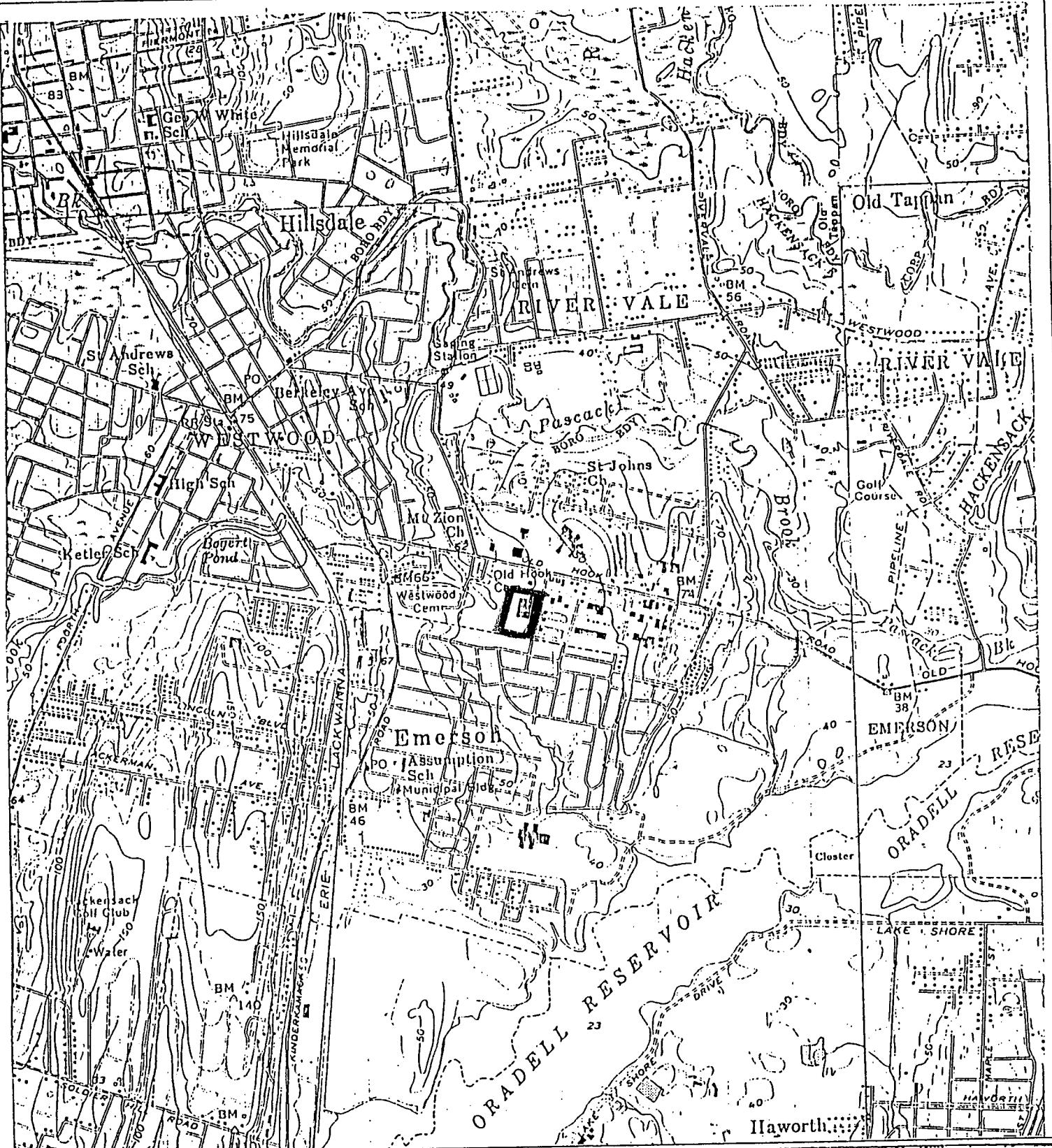
This case will be referred to the NJDEP, Division of Water Resources, Bureau of Groundwater Pollution Assessment for further investigation to determine the source contaminating the groundwater in the area of the site..

Based on previous sampling data, no further action is required by the NJDEP, DHWM, Bureau of Planning and Assessment.

Submitted by:

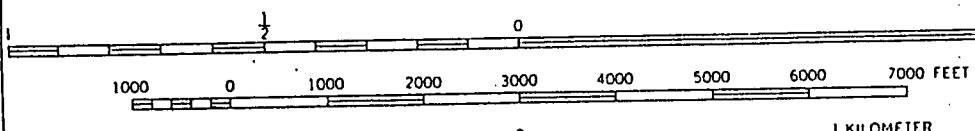
Michael DiGiore
HSMS IV
NJDEP/Bureau of Planning and Assessment
March 1991

MAPS



SCALE 1:24000

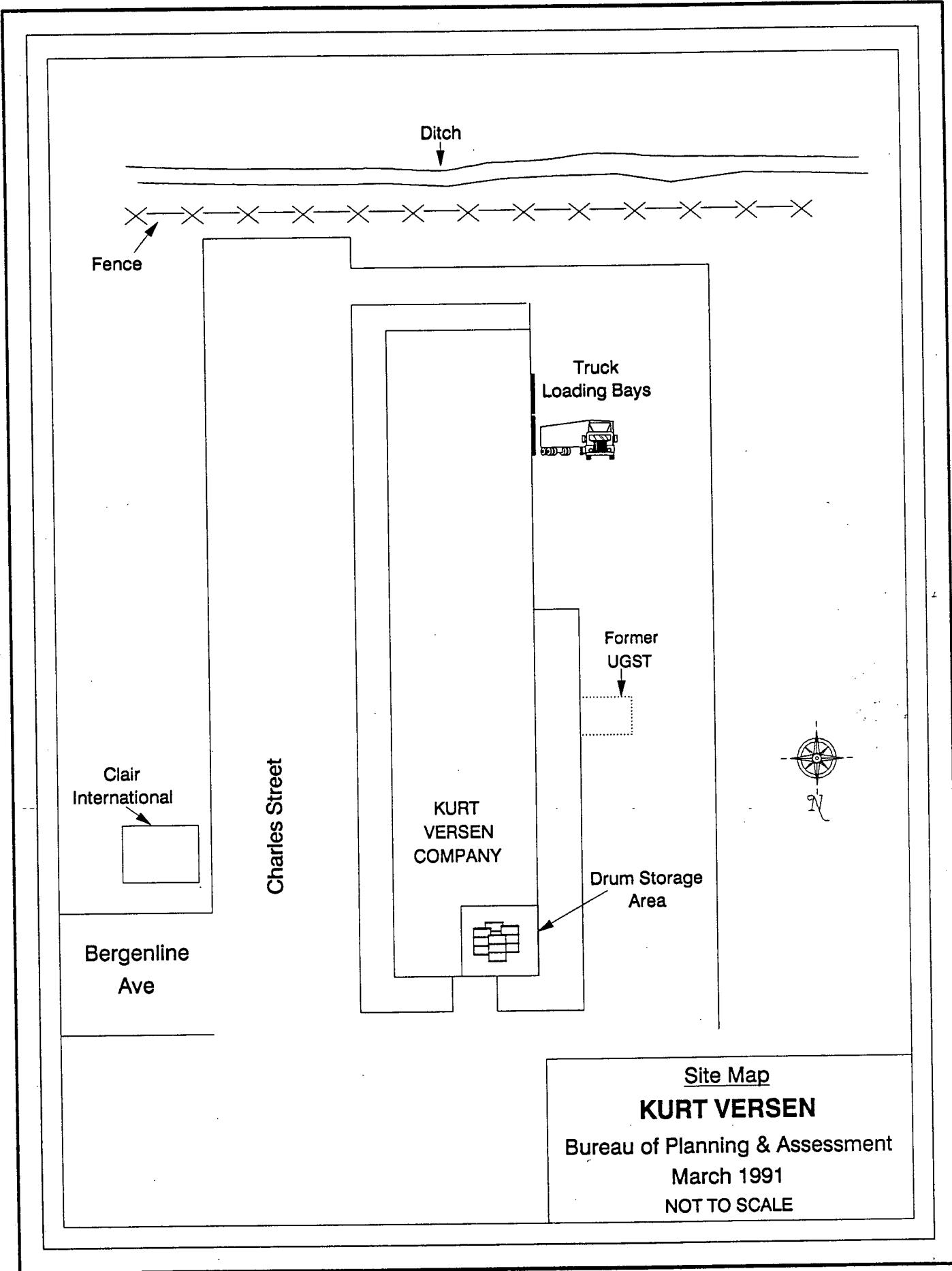
MILE



CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

Kurt Versen Company
10 Charles Street
Westwood, Bergen County
EPA ID# NJD001471614

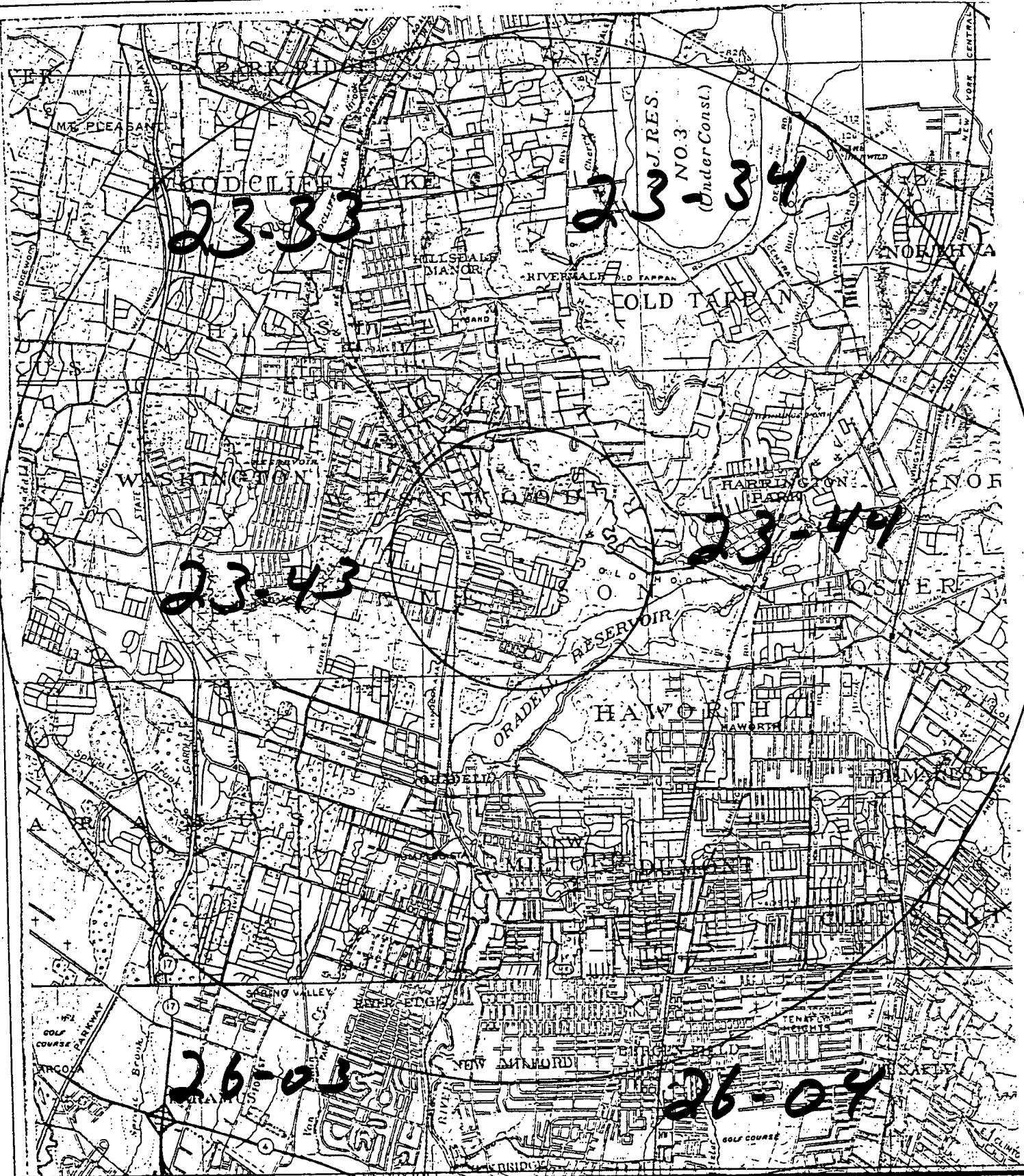
USGS Topographic Map
Hackensack, Nyack, Park Ridge
and Yonkers Quadrangles
Lat. - $40^{\circ} 58' 53''$
Long. - $74^{\circ} 01' 02''$
Scale = 1:24,000



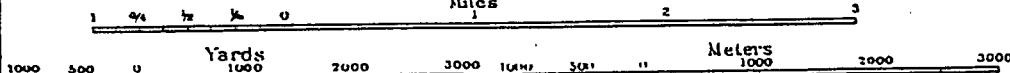
Site Map
KURT VERSEN
Bureau of Planning & Assessment
March 1991
NOT TO SCALE



Kurt Versen Company
10 Charles Street
Westwood, Bergen County
EPA ID# NJD001471614
Bergen County Road Map
Scale = 1.5 inches = 1 Mile



Scale: 1 Mile to an Inch.
Miles



ANSON & CO BALTIMORE, MD
Contour Interval: 20 feet

KURT VERSEN COMPANY
10 CHARLES STREET
WESTWOOD, BERGEN COUNTY
NEW JERSEY ATLAS
BASE MAP-SHEETS 23 & 26

LEGEND FOR ATLAS SHEET 23

- △ — INDUSTRIAL WELL YIELD OVER 70 GALLONS PER MINUTE
- — PUBLIC SUPPLY WELL YIELDING OVER 70 GALLONS PER MINUTE
- ⊕ — UNSUCCESSFUL ROCK WELL YIELDING LESS THAN 70 GALLONS PER MINUTE
- — UNSUCCESSFUL SAND WELL YIELDING LESS THAN 70 GALLONS PER MINUTE
- † — NO TEST - NO DATA ON YIELD

— — — FAULT (DASHED WHERE INFERRED)
— — — CONTACT (DASHED WHERE INFERRED)

HIGHLANDS PHYSIOGRAPHIC PROVINCE BOUNDARY
PIEDMONT
— — — WATER SUPPLY TRANSMISSION LINE

Rb — TRIASSIC BRUNSWICK FORMATION

Rdb — TRIASSIC DIABASE

Rbs — TRIASSIC BASALT FLOWS

PRECAMBRIAN

gh — MOSTLY HORNBLENDE GRANITE AND GRANITE GNEISS

am — AMPHIBOLITE

pqo — PYROXENE GNEISS; MAINLY QUARTZ-OLIGOCLASE-CLINOPYROXENE GNEISS

hqo — PYROXENE GNEISS; MAINLY QUARTZ-ANDESINE GNEISS WITH BOTH
ORTHO AND CLINOPYROXENE

qo — QUARTZ-OLIGOCLASE GNEISS

qob — QUARTZ-OLIGOCLASE-BIOTITE GNEISS

qs — SILLIMANITE GNEISS

sk — MARBLE AND SKARN

LEGEND FOR ATLAS SHEET 26 (GEOLOGY)

- △ — INDUSTRIAL WELL YIELD OVER 70 GALLONS PER MINUTE (INCLUDING PRIVATE WELLS)
- — PUBLIC SUPPLY WELL YIELDING OVER 70 GALLONS PER MINUTE
- ⊕ — UNSUCCESSFUL ROCK WELL YIELDING LESS THAN 70 GALLONS PER MINUTE
- — UNSUCCESSFUL SAND WELL YIELDING LESS THAN 70 GALLONS PER MINUTE
- † — NO TEST—NO DATA ON YIELD

— — — FAULT (DASHED WHERE INFERRED)

— — — CONTACT (DASHED WHERE INFERRED)

— — — PHYSIOGRAPHIC PROVINCE BOUNDARY

— — — WATER SUPPLY TRANSMISSION LINE

NOTE: WHERE THE PRECAMBRIAN FORMATION BOUNDARIES TERMINATE ABRUPTLY,
IT IS THE GEOLOGIST'S OPINION THAT THE GEOLOGICAL COMPLEXITY OF THE
AREA PREVENTS FURTHER INTERPRETATIONS.

Kmr — CRETACEOUS MAGOTHY AND RARITAN FORMATIONS (SAND AND CLAY)

Tb — TRIASSIC BRUNSWICK FORMATION

Tc — TRIASSIC CONGLOMERATE BEDS OF THE STOCKTON FORMATION

Tl — TRIASSIC LOCKATONG FORMATION

Tdb — TRIASSIC DIABASE

Tbs — TRIASSIC BASALT FLOWS

Sd — SILURIAN DECKER LIMESTONE AND LONGWOOD SHALE FORMATIONS

Sgp — SILURIAN GREEN POND CONGLOMERATE

Omb — ORDOVICIAN MARTINSBURG SHALE

COK — CAMBRO ORDOVICIAN KITTATINNY LIMESTONE

CH — CAMBRIAN HARDYSTON SANDSTONE

PRECAMBRIAN:

gh — HORNBLERNE GRANITE WITH PYROXENE GRANITE

ga — ALASKITE

am — AMPHIBOLITE

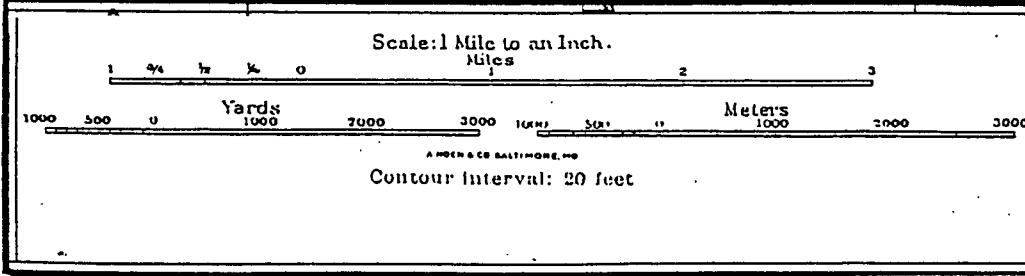
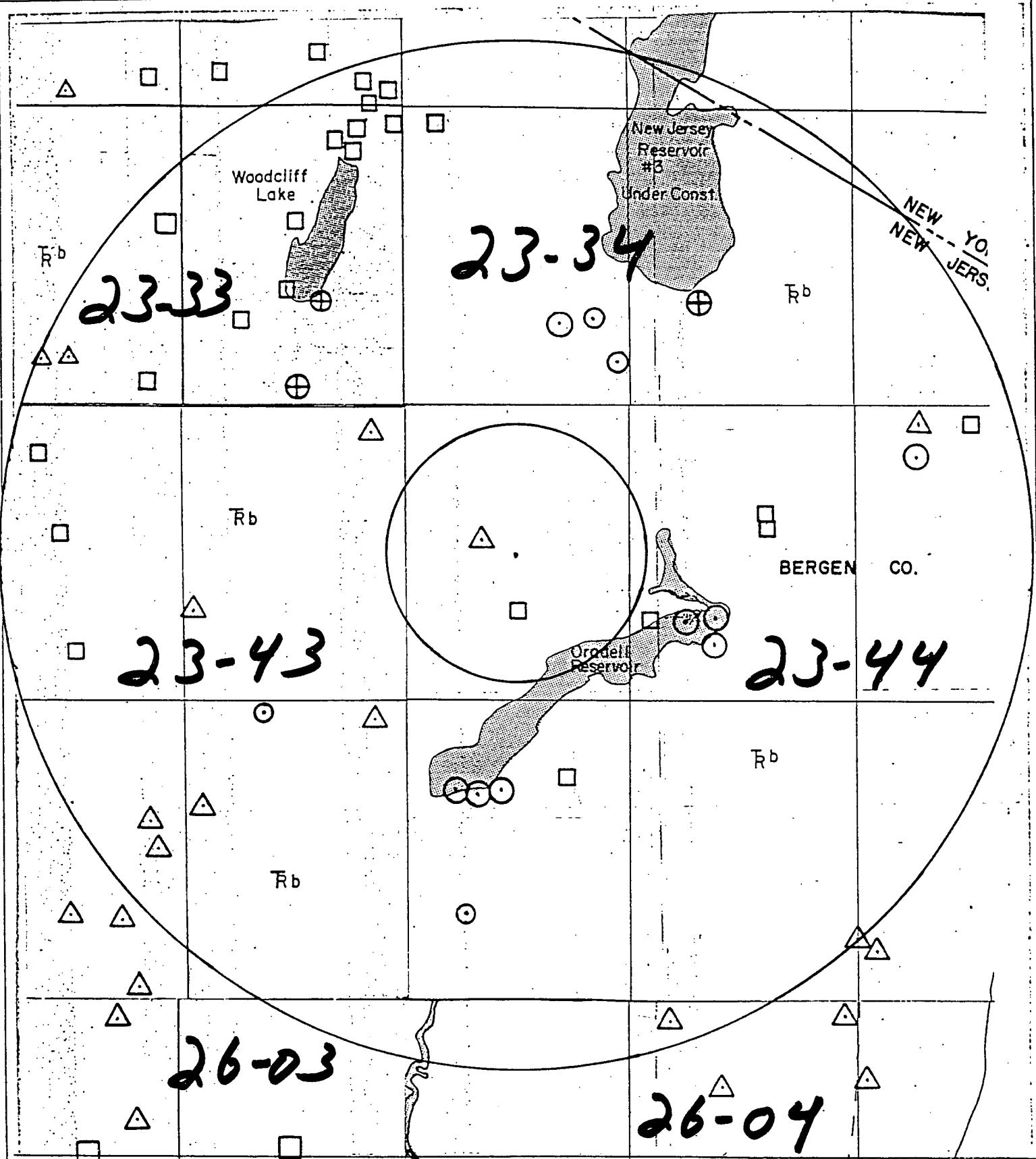
px — PYROXENE GNEISS

gnq — QUARTZ PLAGIOCLASE GNEISS

gnb — BIOTITE GNEISS

sk — SKARN, GRAPHITE SCHIST

fd — FORMATION NOT DETERMINED



KURT VERSEN COMPANY
10 CHARLES STREET
WESTWOOD, BERGEN COUNTY
NEW JERSEY ATLAS GELOGIC
OVERLAY SHEETS 23 & 26

LEGEND

WATER SUPPLY

- [Dotted Box] AREA SERVED BY PRIVATE WATER SERVICE COMPANIES
- [Solid Box] AREA SERVED BY REGIONALLY OWNED WATER SERVICE COMPANIES
- [Hatched Box] AREA SERVED BY MUNICIPALLY OWNED WATER SERVICE COMPANIES
- [White Box] AREA NOT PRESENTLY SERVED BY WATER SERVICE
- [Square] PUBLIC SUPPLY WELLS
- [Circle] SURFACE WATER INTAKE
- W— MAJOR WATER MAINS

SEWAGE, LANDFILL

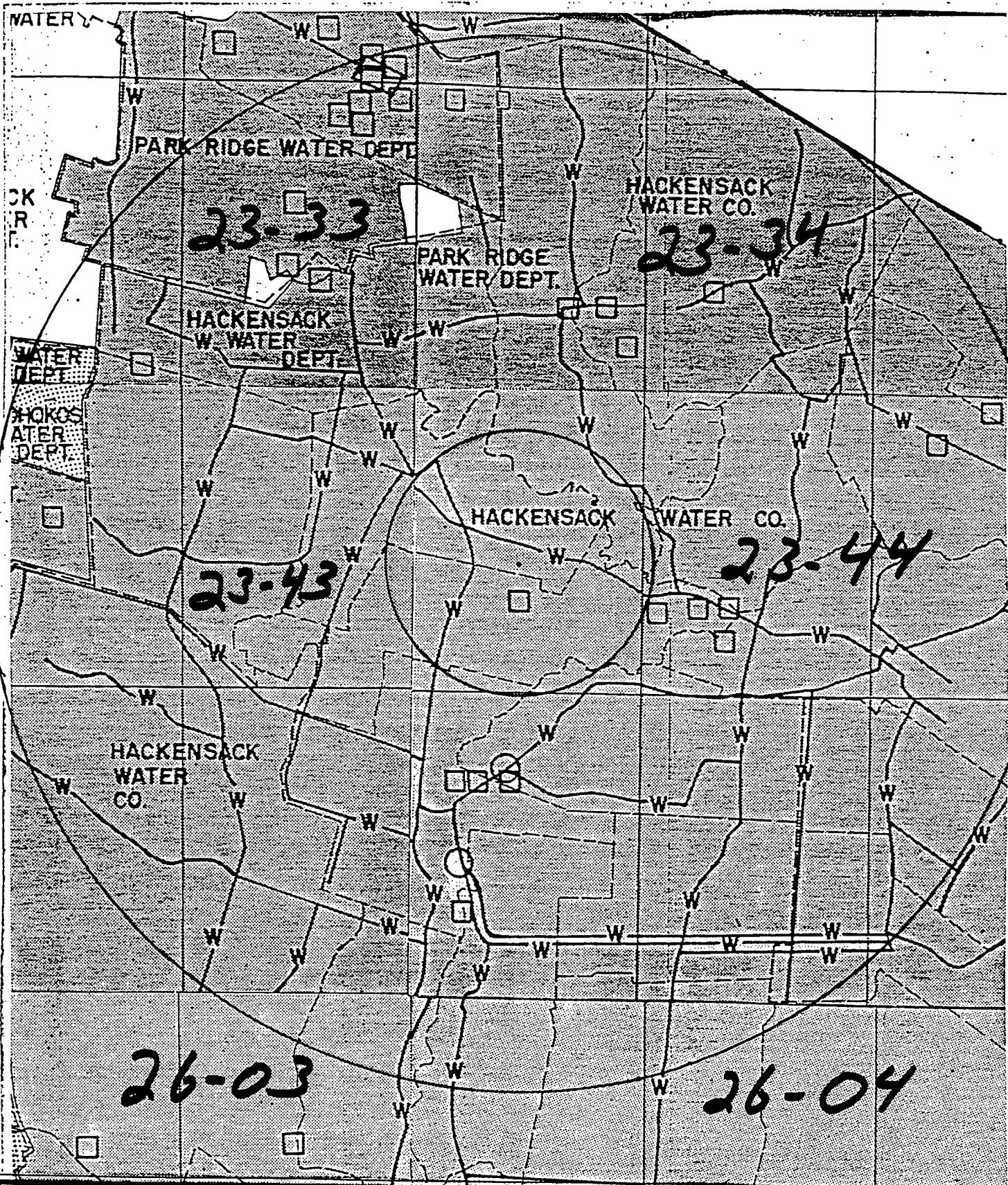
- [Dotted Box] AREA SERVED BY PUBLIC SEWAGE SERVICE
- [White Box] AREA NOT PRESENTLY SERVED BY SEWAGE SERVICE
- [Hatched Box] SANITARY LANDFILLS
- [Circle] SEWAGE TREATMENT PLANTS (CAPACITY <0.3mgd)
- [Circle with dot] SEWAGE TREATMENT PLANTS (CAPACITY >0.3mgd)
- S— MAJOR SEWAGE TRANSMISSION LINES

DRAINAGE BASIN

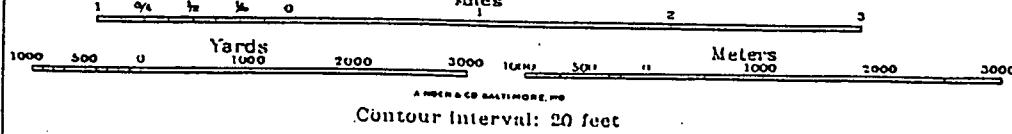
- DRAINAGE BASIN BOUNDARY
- RIVER BASIN BOUNDARY
- HUDSON DRAINAGE BASIN NAME
- STREAMS AND RIVERS
- [Hatched Box] FLOOD PRONE AREAS

POPULATION

- COUNTY BOUNDARY
- MUNICIPAL BOUNDARY
- () POPULATION DENSITY IN PERSONS PER SQUARE MILE
- [Square] AREA IN SQUARE MILES
- % PERCENT AREA OF MUNICIPALITY ON BLOCK
- MARKET ROADS
- [Hatched Box] BUILT UP AREAS
- STATE BOUNDARY



Scale: 1 Mile to an Inch.
Miles



KURT VERSEN COMPANY
10 CHARLES STREET
WESTWOOD, BERGEN COUNTY,
NEW JERSEY ATLAS WATER
SUPPLY OVERLAY
SHEETS 23 & 26

I. Water Well Records

<u>Location</u>	<u>Owner</u>	<u>Year Drilled</u>	<u>Screen Setting or Depth of Casing</u>	Total Depth	g/m Yield	Forma
23-33-117	Cragmere Water Co.			300	200	Trb
23-33-118	Mahwah Twp.			200	250	"
23-33-175	Ramsey Boro			500	105	"
23-33-175	"					
23-33-178	"					
23-33-183	Carlough, C.			61	0	"
23-33-187	Ramsey Boro	1956	20	400	275	Trb
23-33-247	Gibbs, A.	1962	77	400	220	"
23-33-298	VanWyk, E.	1961	22	205	200	"
23-33-418	Ramsey Boro	1965	105	105	75	"
23-33-421	"	1965	25/111	400	151	"
23-33-436	L.G.M. Constr.Corp.	1962	16/37	440	110	"
23-33-446	Erie R.R.		33	122	125	"
23-33-473	Allendale Boro			-	200	"
23-33-513	Knight's Day Camp	1962	39	300	41	"
23-33-514	Hackensack Water Co.	1956	48	105	200	"
23-33-517	"	1965	48	85	450	Qp
23-33-541	"	1974	56	70	1750	"
23-33-588	Parisi, C. J.	1962	47/67	68	1000	Qsd
23-33-599	Tice Farms		174	235	100	Qp-Trb
23-33-624	Jerry's Inn	1959	12	326	150	Trb
23-33-627	Murray, F.	1960	24	195	172	"
23-33-643	Simpson, K.	1963	24	285	75	"
23-33-653	Ramada Inn	1973	43	100	100	"
23-33-678	Park Ridge Boro		89	400	75	"
23-33-686	"	1965	89	500	150	"
23-33-698	"		47	300	151	"
23-33-698	"			435	185	"
23-33-699	"			252	200	"
23-33-711	Allendale Boro	1955	99	28	100	Qp
23-33-711	"			504	60	Trb
23-33-747	Waldwick Boro			450	225	"
23-33-749	"			360	250	"
23-33-755	Allendale Boro	1959	21	500	55	"
23-33-766	Waldwick Boro	1957	70	303	162	"
23-33-771	"	1958	96	290	75	"
23-33-863	Park Ridge Water Co.	1973	54	300	226	"
23-33-884	Brewster & Son, Inc.			360	425	"
23-33-885	Dugan, J.	1959	22	360	80	"
23-33-898	Park Ridge Boro	1963	18	308	100	"
23-33-931	"			18	303	"
23-33-932	"			24	195	"
23-33-933	"			30	210	Qp
23-33-935	"			36	207	"
23-33-952	Hackensack Water Co.			-	200	"
23-33-958	"			440	0	"
23-33-959	"			456	178	Trb
23-33-973	Lock, H.			400	190	"
23-33-988	Hackensack Water Co.	1973	50	205	55	"
				348	75	"
				348	40	"

J. Geodetic Control Survey monuments described
Index Map 10; adjacent Index Maps 9,15

I. Water Well Records

<u>Location</u>	<u>Owner</u>	<u>Year Drilled</u>	<u>Screen Setting Depth of Casing</u>	<u>Total Depth</u>	<u>g/m Yield</u>	<u>Formation</u>
23-43-114	Ridgewood Village			402	350	Trb
23-43-123	Hohokus Boro	1963	52	300	411	"
23-43-127/8	Ridgewood Village (8 wells)			150(av)	95(av)	"
23-43-131	Hohokus Boro			300	200	"
23-43-133	"	1955	39	301	288	"
23-43-158	Grand Union			178	190	"
23-43-159	Food Fair Stores	1955	71	310	250	"
23-43-174	Ridgewood Village	1955	35/56	300	43	"
23-43-177	"			300	198	"
23-43-191	"	1964	52/54	300	1230	"
23-43-198	"			298	200	"
23-43-212	Hohokus Boro			412	105	"
23-43-215	"			314	245	"
23-43-224	Sher, M.	1963	30	205	100	"
23-43-245	Ridgewood Village	1955	42/64	300	200	"
23-43-248	"			201	500	"
23-43-252	"	1964	18/42	320	390	"
23-43-275	"			210	250	"
23-43-285	Peterman, J.	1961	30	165	100	"
23-43-332	Westwood Fuel Co.	1960	56	236	75	"
23-43-371	McKenna			605	210	"
23-43-431	Faber, J.	1964	52	85	75	"
23-43-434	Ridgewood Village			300	162	"
23-43-436	"	1955	44/64	300	165	"
23-43-437	"	1957	36/40	303	340	"
23-43-438	"	1965	51/73	300	254	"
23-43-457	City Housing Corp.			300	30	"
23-43-462	Ridgewood Village			300	151	"
23-43-463	"	1965	65/86	300	151	"
23-43-473	Einson & Freeman Co.			325	168	"
23-43-482	City Housing Corp.			250	30	"
23-43-487	"			378	137	"
23-43-488	Fairlawn Boro			350	385	"
23-43-489	"			250	125	"
23-43-511	Ridgewood, Village of	1973	78	300	159	"
23-43-562	Great Eastern Mills, Inc.	1956	21	200	250	"
23-43-565	"	1956	34	203	250	"
23-43-582	Ridgewood Country Club	1964	29	500	250	"
23-43-591	N.Y. Twist Drill Co.			200	125	"
23-43-598	N.J. L7. Corp.			245	80	"
23-43-632	Hackensack Golf Club	1958	81	532	172	"
23-43-641	Paramus Bd.of Ch. Freeholders	1957	54	300	150	"

J. Geodetic Control Survey monuments described
 Index Map 15; adjacent Index Maps 9,10,16

I. Water Well Records

<u>Location</u>	<u>Owner</u>	<u>Year Drilled</u>	<u>Screen Setting or Depth of Casing</u>	<u>Total Depth</u>	<u>g/m Yield</u>	<u>Format</u>
23-44-154	Westwood Laundry Co.			125	250	Trb
23-44-182	Hackensack-Water Co.	1965	77	478	200	"
23-44-253	"	1973	43	348	120	"
23-44-253	"	1973	43	348	175	"
23-44-271	"			106	123	Qp
23-44-273	"	1954	82	Test negative	Trb	
23-44-281	"	1954	-	" "	Qsd	
23-44-284	"	1954	72	" "	"	
23-44-313	Py Co. Mills, Inc.	1958	52	150	200	Trb
23-44-316	Hackensack Water Co.	1955	54	Test negative	Qsd	
23-44-322	"	1955	-	401	.75	Trb
23-44-419	"	1954	154	Test negative	Qsd	
23-44-427	"	1954	168	" "	"	
23-44-428	"			" "	"	
23-44-437	White Beeches Golf & Country Club	1965	40	171	250	Qsd-Tr
23-44-473	Hackensack Water Co.	1964	95	Test negative	Qsd	
23-44-674	Oldroyd Co.			279	250	Trb
23-44-674	Hoke Valve Co.			276	329	"

J. Geodetic Control Survey monuments described
Index Maps 15, 16; adjacent Index Map 10

I. Water Well Records

<u>Location</u>	<u>Owner</u>	<u>Year Drilled</u>	<u>Screen Setting or Depth of Casing</u>	<u>Total Depth</u>	<u>g/m Yield</u>	<u>Formation</u>
26-04-144	Silver Park Record Co.	1958	44	335	185	Trb
26-04-174	Federated Dept. Stores Inc.	1959	117'11"	147	254	Q
26-04-196	Englewood Hospital Assn.	1968	53'3"	230	222	Trb
26-04-212	Food Fair Stores	1958	25	300	172	"
26-04-227	Patterspn, H & Sons	1966	20	198	225	"
26-04-233	Grand Union Co.			50	82	Trs
26-04-296	Englewood Hospital Assn.			218	89	"
26-04-317	Clinton Inn	1963	39	107	402	"
26-04-432	Grand Union Co.	1953	35	150	75	Trb
26-04-451	Home Town Laundries, Inc.			240	150	"
26-04-474	Bogota Water Co.			275	160	"
26-04-516	Tenafly Enterprises	1970	33	168	70	?
26-04-543	Spiegel Mfg. Corp.	1963	135	145	150	Q
26-04-556	Scharf, Charles	1955	64	250	100	Trs
26-04-557	Cart-Wright, Inc.	1960	115	298	100	"
26-04-744	Flinkote Co.	1955	38	38	No test	Q
26-04-745	Hygenic Ice Co.			750	7	Trb
26-04-767	Schonbrunn Co., Inc.	1965	40	291	60	Trs
26-04-795	J.G.Knits, Inc.	1972	50	300	250	Trb
26-04-789	Grove Pine Corp.	1966	88	315	200+	Trs
26-Q4-799	Great Bear Spring Co.	1965	30	95	178	Trb
26-04-816	Leonia Board of Education	1968	58	350	52	Trs

J. Geodetic Control Survey monuments described
Index Maps 15,16,21

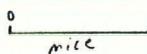
SUBJECT TO REVISION

**WATER WITHDRAWAL
POINTS AND
NJGS CASE INDEX
SITES WITHIN
5.0 MILES OF:**

LATITUDE 405853
LONGITUDE 740102

DRAFT

SCALE: 1:63,360
(1 Inch = 1 Mile)



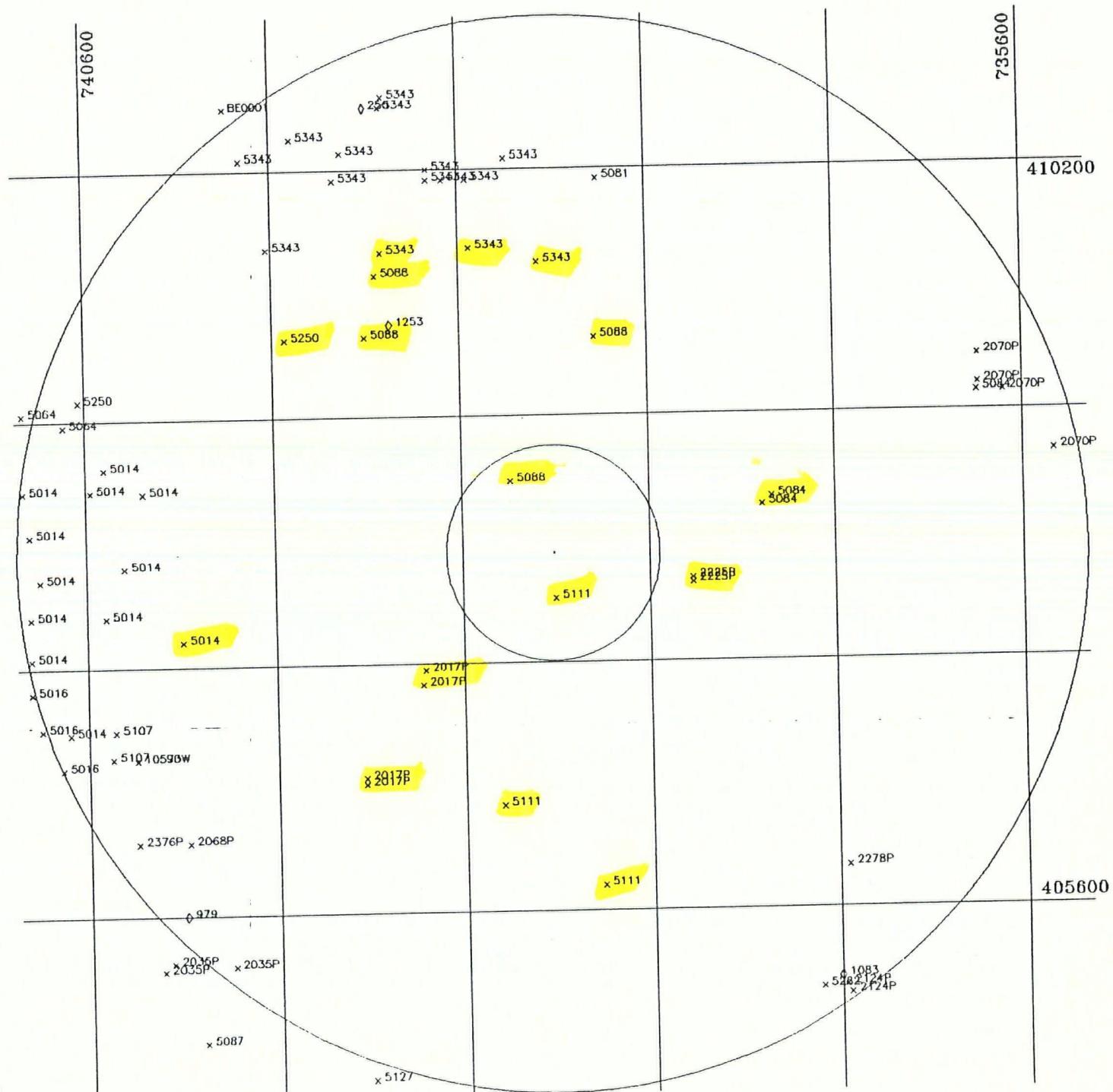
- WATER WITHDRAWAL POINTS
- NJGS CASE INDEX SITES
- 1 MILE AND 5 MILE RADII INDICATED

NJGS CASE INDEX DATA RETRIEVED FROM:
NEW JERSEY GEOLOGICAL SURVEY
ON 12/22/87

PLOT PRODUCED BY:

NJDEP
DIVISION OF WATER RESOURCES
BUREAU OF WATER ALLOCATION
CN-029
TRENTON, NJ 08625

DATE: 01/30/91



Page 1 of PRELIMINARY SURVEY OF WATER WITHDRAWAL POINTS WITHIN 5.0 MILES OF 406635 LAT. 740102 LON. (IN ORDER BY PERMIT NUMBER) - 01/30/91

NUMBER	NAME	SOURCEID	LOCID	LAT	LON	LLACC	DISTANCE	COUNTY	MUN	DEPTH	GEO1	GEO2	CAPACITY
10573W	BERGEN CO. COMMUNITY COLLEGE	4300101		405715	740630	F	4.3 03	46	200	GTRB		180	
10590W	BERGEN CO. DIV. OF PARKS	4300100		405715	740630	F	4.3 03	46	210	GTRB		275	
2017P	HACKENSACK GOLF CLUB	2302297	1	405757	740225	S	1.6 03	44	532	GTRB		150	
	HACKENSACK GOLF CLUB	2305058	2	405702	740304	S	2.8 03	44	320	GTRB		60	
	HACKENSACK GOLF CLUB	2305058	1	405705	740304	F	2.7 03	44		GTRB		300	
	HACKENSACK GOLF CLUB	2305058	2	405750	740227	F	1.7 03	44		GTRB		300	
	HACKENSACK GOLF CLUB	2305058	3	405533	740515	S	5.3 03	46	200	GTRB		150	
2033P	ARCOLA COUNTRY CLUB	4300126	3	405537	740509	S	5.2 03	46	208	GTRB		125	
	ARCOLA COUNTRY CLUB	2303572	4	405535	740430	U	4.9 03	46	5	GTRB		200	
	ARCOLA COUNTRY CLUB	POND	1	405535	740430	U	4.9 03	46	15	GTRB		200	
	ARCOLA COUNTRY CLUB	POND	2	405535	740430	U	4.9 03	46	306	GTRB		120	
2066P	RIDGEWOOD COUNTRY CLUB	4300032	1	405635	740458	U	4.3 03	46	275	GTRB		275	
	RIDGEWOOD COUNTRY CLUB	4300033	2	405635	740458	U	4.3 03	46	500	GTRB		250	
	RIDGEWOOD COUNTRY CLUB	2303832	3	405635	740458	S	4.3 03	46	8	GTRB		500	
	RIDGEWOOD COUNTRY CLUB	POND		405635	740458	U	4.3 03	46		GTRB		100	
2070P	BERGEN COUNTY DIV. OF PARKS	2302807	1	410009	735612	S	4.5 03	55	150	GTRB		65	
	BERGEN COUNTY DIV. OF PARKS	2302599	2	405940	735540	S	4.8 03	55		S		750	
	BERGEN COUNTY DIV. OF PARKS	POND	1	410027	735628	U	4.4 03	55		S		150	
	BERGEN COUNTY DIV. OF PARKS	POND	2	410013	735628	U	4.3 03	55		S		400	
2124P	CLINTON INN MOTOR HOTEL	2602787	1	405822	735757	S	4.9 03	61	106	GTRB		175	
	CLINTON INN MOTOR HOTEL	2604394	2	405818	735754	S	4.9 03	61	107	GTRB		150	
2229P	HACKENSACK WATER COMPANY	2306433	H. PARK #1	405840	735932	S	1.3 03	24	95	GTRD		150	
	HACKENSACK WATER COMPANY	2306434	H. PARK #2	405838	735932	S	1.3 03	24	82	GTRD		250	
2278P	HOKE, INC.	2302273	1	405620	735754	S	4.0 03	08	279	GTRB		250	
	HOKE, INC.	2302248	2	405620	735754	S	4.0 03	08	275	GTRB		200	
2378P	PARANUS GOLF AND COUNTRY CLUB	4300095	2	405635	740530	F	4.7 03	46	200	GTRB		350	
	PARANUS GOLF AND COUNTRY CLUB	STORAGE POND		405635	740530	F	4.7 03	46		GTRB			
5014	RIDGEWOOD VILLAGE	4300004	CARR 1	405925	740640		5.0 03	51	250	GTRB			
	RIDGEWOOD VILLAGE	4300005	CARR 2	405925	740640		5.0 03	51	250	GTRB			
	RIDGEWOOD VILLAGE	4300006	CARR 3	405925	740640		5.0 03	51	250	GTRB			
	RIDGEWOOD VILLAGE	4300007	CARR 4	405925	740640		5.0 03	51	200	GTRB			
	RIDGEWOOD VILLAGE	4300008	CARR 5	405925	740640		5.0 03	51	218	GTRB			
	RIDGEWOOD VILLAGE	4300009	CARR 6	405925	740640		5.0 03	51	150	GTRB			
	RIDGEWOOD VILLAGE	4300010	CARR 7	405925	740640		5.0 03	51	175	GTRB			
	RIDGEWOOD VILLAGE	4300011	CARR 8	405925	740640		5.0 03	51	175	GTRB			
	RIDGEWOOD VILLAGE	4300012	CARR 9	405925	740640		5.0 03	51	175	GTRB			
	RIDGEWOOD VILLAGE	4300013	GRIVE ST.	405804	740536		5.0 03	51	298	GTRB		200	
	RIDGEWOOD VILLAGE	4300014	E. RIDGEWD.	405824	740548		4.2 03	51	201	GTRB		600	
	RIDGEWOOD VILLAGE	4300015	LINWOOD	405904	740536		4.9 03	51	251	GTRB		700	
	RIDGEWOOD VILLAGE	2300333	E SADDLE R	405924	740524		3.9 03	51	300	GTRB		300	
	RIDGEWOOD VILLAGE	2301644	SPRING	405824	740535		4.9 03	51	300	GTRB		300	
	RIDGEWOOD VILLAGE	2301643	WALTHERY	405936	740548		4.3 03	51	300	GTRB		175	
	RIDGEWOOD VILLAGE	2301445	PARAMUS	405848	740526		4.0 03	51	300	GTRB		150	
	RIDGEWOOD VILLAGE	2303903	IRVINS	405842	740530		4.8 03	51	300	GTRB		380	
	RIDGEWOOD VILLAGE	2303902	SALEM	405812	740500		3.6 03	51	320	GTRB		225	
	RIDGEWOOD VILLAGE	2304455	TWINNY	405925	740557		4.3 03	51	298	GTRB		550	
	RIDGEWOOD VILLAGE	2304170	STEVENS	405728	740512		4.8 03	51	300	GTRB		225	
5016	RIDGEWOOD VILLAGE	2301770	PROSPECT	405748	740536		5.0 03	22	300	GTRB		400	
	RIDGEWOOD VILLAGE	2302227	AKERMAN	405730	740530		5.0 03	22	303	GTRB		250	
	RIDGEWOOD VILLAGE	2304171	LEIGH	405711	740517		5.0 03	22	300	GTRB		125	
5064	HOD-HOKUS BOROUGH WATER DEPT.	2301592	4	405857	740514		4.7 03	28	307	GTRB		275	
	HOD-HOKUS BOROUGH WATER DEPT.	2307356	5	410003	740540		5.1 03	28	300	GTRB		325	
5061	HACKENSACK WATER COMPANY	2302022	2 LAKES W	410155	740539	F	5.5 03	20	92	GTRB		275	
5064	HACKENSACK WATER COMPANY	2303539	5	405845	735547	U	2.0 03	24	348	GTRB		250	
	HACKENSACK WATER COMPANY	2305639	6	405819	735541	U	2.1 03	24	348	GTRB		150	
	HACKENSACK WATER COMPANY	SPARKILL CREEK	7	410004	735627	U	4.2 03	40		SHHU			

Page 2 of PRELIMINARY SURVEY OF WATER WITHDRAWAL POINTS WITHIN 5.0 MILES OF 406553 LAT. 740102 LDN. (IN ORDER BY PERMIT NUMBER) - 01/30/91

NUMBER	NAME	SOURCEID	LOCID	LAT	LDN	LLADC	DISTANCE	COUNTY	MUN	DEPTH	GEO1	GEO2	CAPACITY	
5087	HACKENSACK WATER COMPANY	2603017	ROCHELLE R	406449			5.6	03	54	473	GTRB		200	
5068	HACKENSACK WATER COMPANY	2304319	WESTWOOD	406928	740129		0.8	03	67	428	GTRB		550	
	HACKENSACK WATER COMPANY	2304083	WOODCLIFFE	410109	740254		3.1	03	69	440	GTRB		150	
	HACKENSACK WATER COMPANY	2304102	HILLSDALE	410039	740301		2.7	03	27	456	GTRB		150	
	HACKENSACK WATER COMPANY	2301215	OLD TAPPAN	410038	740034		2.0	03	43	451	GTRB		150	
5107	HACKENSACK WATER COMPANY	2304260	PARAMUS 1	406716	740545		4.5	03	46	28	GOD		200	
	HACKENSACK WATER COMPANY	2303502	PARAMUS 2	406716	740545		4.5	03	46	388	GTRB		150	
	HACKENSACK WATER COMPANY		SADDLE RIVER	405729	740543		4.4	03	46		SPSAD			
5111	HACKENSACK WATER COMPANY	2304135		406831	740101		0.4	03	14	479	GTRB		170	
	HACKENSACK WATER COMPANY	2304815		406612	740032		3.1	03	26	403	GTRB		160	
	HACKENSACK WATER COMPANY		HACKENSACK RIV	405651	740136	U	2.4	03	38		SHAC			
	HACKENSACK WATER COMPANY		HIRSHFIELD BR	406651	740136	U	2.4	03	38		SHAC			
5127	LODI BOROUGH	2603165	HOME PLACE	406439	740301		5.2	03	31	450	GTRB		175	
5250	WALDWICK WATER DEPARTMENT	2302291	4	410009	740604		4.6	03	64	300	GTRB		300	
	WALDWICK WATER DEPARTMENT	2302349	5	410038	740352		3.2	03	64	300	GTRB		200	
5282	GARFIELD WATER DEPARTMENT	2604103	6	406521	735812		4.9	03	21	300	GTRB		150	
5343	PARK RIDGE WATER DEPARTMENT	4300089	1	410155	740210	F	3.6	03	47	252	GTRB		150	
	PARK RIDGE WATER DEPARTMENT	4300090	2	410200	740220	F	3.8	03	47	435	GTRB		150	
	PARK RIDGE WATER DEPARTMENT	4300091	3	410208	740315	F	4.2	03	47	500	GTRB		150	
	PARK RIDGE WATER DEPARTMENT	4300092	4	410155	740155	F	3.6	03	47	445	GTRB		105	
	PARK RIDGE WATER DEPARTMENT	2303839	5	410155	740220		3.7	03	47	24	GOD		200	
	PARK RIDGE WATER DEPARTMENT	2301280	6	410155	740155	F	3.6	03	47	30	GOD		200	
	PARK RIDGE WATER DEPARTMENT	2301281	7	410155	740155	F	3.6	03	47	36	GOD		200	
	PARK RIDGE WATER DEPARTMENT	2302151	8	410155	740155	F	3.6	03	47	665	GTRB		300	
	PARK RIDGE WATER DEPARTMENT	2302942	9	410122	740403	F	3.9	03	69	300	GTRB		150	
	PARK RIDGE WATER DEPARTMENT	2303748	10	410205	740420		4.7	03	69	303	GTRB		150	
	PARK RIDGE WATER DEPARTMENT	2304371	11	410230	740250	F	4.4	03	47	450	GTRB		170	
	PARK RIDGE WATER DEPARTMENT	2304808	12	410155	740320	T	4.0	03	47	305	GTRB		140	
	PARK RIDGE WATER DEPARTMENT	2305113	13	410122	740153	F	2.9	03	47	400	GTRB		300	
	PARK RIDGE WATER DEPARTMENT	2305487	14	410235	740248	F	4.5	03	48	350	GTRB		150	
	PARK RIDGE WATER DEPARTMENT	2305963	15	410120	740250	F	3.2	03	69	300	GTRB		335	
	PARK RIDGE WATER DEPARTMENT	2306669	16	410115	740110	F	2.7	03	47	325	GTRB		520	
	PARK RIDGE WATER DEPARTMENT	2307136	17	410215	740347	F	4.6	03	47	350	GTRB		250	
	PARK RIDGE WATER DEPARTMENT	2306797	18	410205	740130	F	3.7	03	47	300	GTRB		300	
E60001	TICE FARMS	23335799	WELL 1	410230	740430	F	5.1	03	69	420	GTRB		175	
	TICE FARMS	---	POND	1	410230	740430	F	5.1	03	69	6	GTRB		

Number of Observations: 91

ATTACHMENT A



ID 00615

CM

State of New Jersey
Department of Environmental Protection

Return forms to:

INDUSTRIAL SURVEY PROJECT
P.O. BOX 251
TRENTON, NEW JERSEY 08602

SELECTED SUBSTANCE REPORT

PART I - General Plant Information

COMPLETE ONE REPORT FOR EACH PLANT SITE OR FACILITY LOCATION

1. Company Name Kurt Versen Company

2. Division or Plant Name _____

3. Mailing Address (Street) 10 Charles Street,(City/Town) Westwood County Bergen State N.J. Zip Code 076754. Plant Location Address (Street) (same)

(If not as above)

(City/Town) _____ County _____ State _____ Zip Code _____

5. Date Plant Began Operations At This Location Time, 19646. Person to Contact Regarding this Report John Pecoraro Title Plant Engineer7. Phone Number (Area Code) 201-664-8200

8. SIC Code (Four Digit) _____ Standard Industrial Classification (if available) _____

9. Nature of Business Manufacturer of Industrial Lighting Fixtures10. Number of Production Employees at this Plant Site 10811. Does this plant manufacture, process, form, repackage, release, use, dispose of or store any of the selected substances shown on Table I of the enclosed instructions? (Check One) YES NO

If your answer to number 11 is "YES", complete the Entire Report for your facility, sign and return.

If your answer to number 11 is "NO", complete Question 15, sign and return.

I, HEREBY, CERTIFY THAT ALL STATEMENTS MADE BY ME IN THIS REPORT ARE TRUE, COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND THAT ESTIMATES WHERE USED HAVE BEEN MADE IN GOOD FAITH.

NAME (Print) John P. Pecoraro Signature John P. PecoraroTitle Plant Engineer Date 6/15/82

12A. Sketch (On the reverse side of this page) or attach a copy of a map indicating the exact location of the plant site.

12B. Supply your Dun & Bradstreet number if available. _____

FOR OFFICIAL USE ONLY

E 51826S N 45371S 3011O A C 0 X V D & B 001471614Due date:
9/18/82

HACKENSACK

37155900 3 073 3648
AMBER ALUMINUM CO
-CORP-
50 CHARLES ST
WESTWOOD N J

ATTACHMENT A-3

80665

7

WESTWOODEN

List all of the selected substances included in this report along with their CAS Numbers (from Table I of the Instructions) which are manufactured, processed, formed, repackaged, released, used, disposed of or stored at the plant site:

7440-38-2 Arsenic

7440-50-8 Copper

7439-97-6 Mercury

7440-66-6 Zinc

14. Wastewater Discharges - Complete the following information:

A. Discharge to publicly owned treatment works (POTW):

1. Name of Utility (POTW) Bergen County Utilities Authority

Address/Location Box 122, Little Ferry, New Jersey

2. Estimated Average Volume of Wastewater Discharged to POTW in a day.

10,000 gallons.

3. Briefly describe any pretreatment methods controlled addition of caustic solution to insure an acceptable pH reading of waste solution being discharged into the sewer.

4. Wastewater consists of: (X) Process Water, () Contact Cooling, () Non-Contact Cooling, () Domestic Sewage, () Contaminated Storm Water, () Washdown Water, () Scrubber Water, () Other.

B. Discharge to Navigable Waterway or Tributary Stream:

1. Name of Receiving Stream N/A

2. NPDES Permit Number

3. Estimated average volume of wastewater discharged to receiving stream in a day

gallons.

4. Briefly describe any treatment methods controlled additions of caustic solution to neutralize wastewater

5. Wastewater consists of: (X) Process Water, () Contact Cooling, () Non-Contact Cooling, () Domestic Sewage, () Contaminated Storm Water, () Washdown Water, () Scrubber Water, () Other.

15. Previous disposal practices (1930-1977). Has this plant previously disposed of wastes containing any of the selected substances at any land disposal site (i.e. by land spreading or burial, landfilling, lagoon or seepage pit) either on or off site?

YES NO

If available provide the following information for each disposal site. Use additional pages if necessary.

Name and Location of Site

Time period site was used

Name of selected substances disposed of at this site

Physical State

Amount of selected substance disposed at site (pounds)

ATTACHMENT A 6

SELECTED SUBSTANCE REPORT

FOR DEP USE

USE ONE FORM FOR EACH SELECTED SUBSTANCE

Name and Location of Plant
Kurt Versen Company 10 Charles St. Westwood, N. J.

I.D.

Selected Substance Name CAS #
Arsenic 7440-38-2

Briefly Describe Its Use On The Site:
Produced as a By-Product of Plating operation and disposal
is by means of sanitary sewer in amounts acceptable by
E.P.A.

CHECK ONE

COMPLETE THE FOLLOWING INFORMATION FOR THE PLANT BASED ON 1973 USAGE		ENTER THE ACTUAL OR ESTIMATED AMOUNTS	USE THE RE- QUESTED UNITS	ACT- UAL	ESTI- MATED
4. QUANTITY PRODUCED ON SITE		in acceptable limits	lbs/yr.		
5. QUANTITY BROUGHT ONTO SITE		N/A	lbs/yr.		
6. QUANTITY CONSUMED ON SITE		N/A	lbs/yr.		
7. QUANTITY SHIPPED OFF SITE AS (OR IN) PRODUCT		N/A	lbs/yr.		
8. MAXIMUM INVENTORY		N/A	lbs		
9. TOTAL STACK EMISSIONS OF SELECTED SUBSTANCE		N/A	lbs/yr.		
		N/A	max lbs/day		
10. TOTAL FUGITIVE EMISSIONS OF SELECTED SUBSTANCE		N/A	lbs/yr.		
		N/A	max lbs/day		
11. TOTAL DISCHARGE OF SELECTED SUBSTANCE INTO SURFACE WATER		N/A	lbs/yr.		
		N/A	max lbs/day		
12. TOTAL DISCHARGE OF SELECTED SUBSTANCE INTO PUBLICLY OWNED TREATMENT WORKS		in acceptable limits	lbs/yr.		
		in acceptable limits	max lbs/day		

13. DISPOSAL OF WASTE CONTAINING THE SELECTED SUBSTANCE

LOCATION OF FINAL DISPOSAL SITE NAME AND ADDRESS	PHYSICAL STATE TABLE A	DISPOSAL METHOD TABLE B	QUANTITY OF SELECTED SUBSTANCE DISPOSED (lbs)	FOR DEP USE
1.				
2.				
3.				
4.				
5.				

TABLE A
PHYSICAL STATE

- W-01 Solid
- W-02 Liquid
- W-03 Slurry
- W-04 Sludge
- W-09 Other (specify)

- M-01 Composting
- M-02 Evaporation
- M-03 Holding Tank
- M-04 Incineration
- M-05 Injection Well
- M-06 Lagoon

TABLE B
DISPOSAL METHODS

- M-07 Land Burial
- M-08 Land Spreading
- M-09 Neutralization
- M-10 Ocean Disposal
- M-11 Recycling
- M-12 Sanitary Landfill

- M-13 Surface Water
- M-14 Subsurface System
- M-15 Pyrolysis
- M-16 Sonic Irrigation
- M-17 Spread On Site
- M-18 Other (specify)

A7

SELECTED SUBSTANCE REPORT

FOR DEP USE

USE ONE FORM FOR EACH SELECTED SUBSTANCE

Name and Location of Plant

Kurt Versen Company 10 Charles Street Westwood, N.J.

I.D.

Selected Substance Name
CopperCAS #
7440-50-8

3. Briefly Describe Its Use On The Site:

Produced as a By-Product of Plating operation and disposal is by means of sanitary sewer in amounts acceptable by E.P.A.

CHECK ONE

COMPLETE THE FOLLOWING INFORMATION FOR THE PLANT BASED ON 1978 USAGE		ENTER THE ACTUAL OR ESTIMATED AMOUNTS	USE THE REQUESTED UNITS	ACTUAL	ESTIMATED
QUANTITIES	4. QUANTITY PRODUCED ON SITE	in acceptable limits	lbs/yr.		
	5. QUANTITY BROUGHT INTO SITE	N/A	lbs/yr.		
	6. QUANTITY CONSUMED ON SITE	N/A	lbs/yr.		
	7. QUANTITY SHIPPED OFF SITE AS (OR IN) PRODUCT	N/A	lbs/yr.		
	8. MAXIMUM INVENTORY	N/A	lbs		
EMISSIONS	9. TOTAL STACK EMISSIONS OF SELECTED SUBSTANCE	N/A	lbs/yr.		
		N/A	max lbs/day		
	10. TOTAL FUGITIVE EMISSIONS OF SELECTED SUBSTANCE	N/A	lbs/yr.		
		N/A	max lbs/day		
DISCHARGES	11. TOTAL DISCHARGE OF SELECTED SUBSTANCE INTO SURFACE WATER	N/A	lbs/yr.		
		N/A	max lbs/day		
	12. TOTAL DISCHARGE OF SELECTED SUBSTANCE INTO PUBLICLY OWNED TREATMENT WORKS	in acceptable limits in acceptable limits	lbs/yr. max lbs/day		

13. DISPOSAL OF WASTE CONTAINING THE SELECTED SUBSTANCE

LOCATION OF FINAL DISPOSAL SITE NAME AND ADDRESS	PHYSICAL STATE TABLE A	DISPOSAL METHOD TABLE B	QUANTITY OF SELECTED SUBSTANCE DISPOSED (lbs)	FOR DEP USE
1.				
2.				
3.				
4.				
5.				

TABLE A
PHYSICAL STATE

- W-01 Solid
- W-02 Liquid
- W-03 Slurry
- W-04 Sludge
- W-09 Other (specify)

- M-01 Composting
- M-02 Evaporation
- M-03 Holding Tank
- M-04 Incineration
- M-05 Injection Well
- M-06 Lagoon

TABLE B
DISPOSAL METHODS

- M-07 Land Burial
- M-08 Land Spreading
- M-09 Neutralization
- M-10 Ocean
- M-11 Recycling
- M-12 Sanitary Landfill

- M-13 Surface Water
- M-14 Subsurface System
- M-15 Pyrolysis
- M-16 Soak Irrigation
- M-17 Stored On Site
- M-98 Other (specify)

ATTACHMENT A-8

SELECTED SUBSTANCE REPORT

FOR DEP USE

FILL IN ONE FORM FOR EACH SELECTED SUBSTANCE

Name and Location of Plant
Jrt Versen Company

10 Charles St. Westwood, N.J.

I.D.

2 Selected Substance Name
MercuryCAS #
7439-97-6

3. Briefly Describe Its Use On The Site:

Produced as a By-Product of Plating operation and disposal is by means of sanitary sewer in amounts acceptable by E.P.A.

CHECK ONE

COMPLETE THE FOLLOWING INFORMATION FOR THE PLANT BASED ON 1978 USAGE		ENTER THE ACTUAL OR ESTIMATED AMOUNTS	USE THE REQUESTED UNITS	ACTUAL	ESTIMATED
	4. QUANTITY PROCUCED ON SITE	in acceptable limits	lbs/yr.		
	5. QUANTITY BROUGHT ONTO SITE	N/A	lbs/yr.		
	6. QUANTITY CONSUMED ON SITE	N/A	lbs/yr.		
	7. QUANTITY SHIPPED OFF SITE AS (OR IN) PRODUCT	N/A	lbs/yr.		
	8. MAXIMUM INVENTORY	N/A	lbs		
	9. TOTAL STACK EMISSIONS OF SELECTED SUBSTANCE	N/A	lbs/yr.		
		N/A	max lbs/day		
	10. TOTAL FUGITIVE EMISSIONS OF SELECTED SUBSTANCE	N/A	lbs/yr.		
		N/A	max lbs/day		
	11. TOTAL DISCHARGE OF SELECTED SUBSTANCE INTO SURFACE WATER	N/A	lbs/yr.		
		N/A	max lbs/day		
	12. TOTAL DISCHARGE OF SELECTED SUBSTANCE INTO PUBLICLY OWNED TREATMENT WORKS	in acceptable limits	lbs/yr.		
		in acceptable limits	max lbs/day		

13. DISPOSAL OF WASTE CONTAINING THE SELECTED SUBSTANCE

LOCATION OF FINAL DISPOSAL SITE NAME AND ADDRESS	PHYSICAL STATE TABLE A	DISPOSAL METHOD TABLE B	QUANTITY OF SELECTED SUBSTANCE DISPOSED (lbs)	FOR DEP USE
1.				
2.				
3.				
4.				
5.				

TABLE A
PHYSICAL STATE

- W-01 Solid
- W-02 Liquid
- W-03 Slurry
- W-04 Sludge
- W-09 Other (specify)

- M-01 Composting
- M-02 Evaporation
- M-03 Holding Tank
- M-04 Incineration
- M-05 Injection Well
- M-06 Lagoon

TABLE B
DISPOSAL METHODS

- M-07 Land Burial
- M-08 Land Spreading
- M-09 Neutralization
- M-10 Ocean
- M-11 Recycling
- M-12 Sanitary Landfill

- M-13 Surface Water
- M-14 Subsurface System
- M-15 Pyrolysis
- M-16 Spray Irrigation
- M-17 Stored On Site
- M-98 Other (specify)

ATTACHMENT A-9

SELECTED SUBSTANCE REPORT

COMPLETE ONE FORM FOR EACH SELECTED SUBSTANCE

FOR DEP USE

Name and Location of Plant

Kurt Versen Company 10 Charles Street Westwood, N.J.

I.D.

2. Selected Substance Name

Zinc

CAS #

7440-66-6

3. Briefly Describe Its Use On The Site:

Produced as a By-Product of Plating operation and disposal is by means of sanitary sewer in amounts acceptable by E.P.A.

CHECK ONE

COMPLETE THE FOLLOWING INFORMATION FOR THE PLANT BASED ON 1978 USAGE		ENTER THE ACTUAL OR ESTIMATED AMOUNTS	USE THE REQUESTED UNITS	ACTUAL	ESTIMATED
THROUGHPUT QUANTITIES	4. QUANTITY PROCUCED ON SITE	in acceptable limits	lbs/yr.		
	5. QUANTITY BROUGHT INTO SITE	N/A	lbs/yr.		
	6. QUANTITY CONSUMED ON SITE	N/A	lbs/yr.		
	7. QUANTITY SHIPPED OFF SITE AS (OR IN) PRODUCT	N/A	lbs/yr.		
	8. MAXIMUM INVENTORY	N/A	lbs		
AIR EMISSIONS	9. TOTAL STACK EMISSIONS OF SELECTED SUBSTANCE	N/A N/A	lbs/yr. max lbs/day		
	10. TOTAL FUGITIVE EMISSIONS OF SELECTED SUBSTANCE	N/A N/A	lbs/yr. max lbs/day		
WASTEWATER DISCHARGE	11. TOTAL DISCHARGE OF SELECTED SUBSTANCE INTO SURFACE WATER	N/A N/A	lbs/yr. max lbs/day		
	12. TOTAL DISCHARGE OF SELECTED SUBSTANCE INTO PUBLICLY OWNED TREATMENT WORKS	in acceptable limits in acceptable limits	lbs/yr. max lbs/day		

13. DISPOSAL OF WASTE CONTAINING THE SELECTED SUBSTANCE

LOCATION OF FINAL DISPOSAL SITE NAME AND ADDRESS	PHYSICAL STATE TABLE A	DISPOSAL METHOD TABLE B	QUANTITY OF SELECTED SUBSTANCE DISPOSED (lbs)	FOR DEP USE
1.				
2.				
3.				
4.				
5.				

TABLE A
PHYSICAL STATE

- W-01 Solid
- W-02 Liquid
- W-03 Slurry
- W-04 Sludge
- W-09 Other (specify)

TABLE B
DISPOSAL METHODS

- M-01 Composting
- M-02 Evaporation
- M-03 Holding Tank
- M-04 Incineration
- M-05 Injection Well
- M-06 Lagoon
- M-07 Land Burial
- M-08 Land Spreading
- M-09 Neutralization
- M-10 Ocean
- M-11 Recycling
- M-12 Sanitary Landfill

- M-13 Surface Water
- M-14 Subsurface System
- M-15 Pyrolysis
- M-16 Spray Irrigation
- M-17 Stored On Site
- M-98 Other (specify)

ATTACHMENT A-10

ATTACHMENT B

RECEIVED

OCT 24 1985



DEPT. ENVIRON. PROTECTION
Division Water Resources State of New Jersey

WQM - Administration

**DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES**

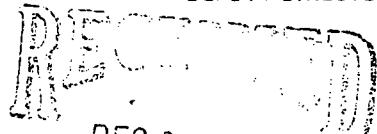
CN 029

TRENTON, NEW JERSEY 08625

JOHN W. GASTON JR., P.E.
DIRECTOR

DIRK C. HOFMAN, P.E.
DEPUTY DIRECTOR

OCT 22 1985



DEC 03 1985

STATE OF NEW JERSEY
DEPT. ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
BUREAU OF IND. WASTE MGMT.

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Kurt Versen Company
10 Charles Street
Westwood, NJ 07675

Attention: Mr. John Pecoraro, Plant Engineer

Re: Illegal Surface Water Discharge
Kurt Versen Company
Westwood/Bergen County

Dear Mr. Pecoraro:

There is enclosed for service upon you an Administrative Order and Notice of Civil Administrative Penalty Assessment, issued by this Department pursuant to the provisions of N.J.S.A. 58:10A-10(b) and N.J.S.A. 58:10A-10(d).

If you have any questions concerning this Order, contact Peter T. Lynch, Chief, Metro Bureau of Regional Enforcement, 1100 Raymond Boulevard, Room 510, Newark, NJ 07102 or by telephoning (201) 648-2030.

Very truly yours,

John W. Gaston, Jr.

John W. Gaston, Jr., P.E.
Director

cc: USEPA
Paul DeStefano, H.O.
Marianne Montgomery

RECEIVED

DEC 09 1985

New Jersey Standard Oil Company Employer

RECEIVED

DEC 06 1985 (390)

DEPT. ENVIRON. PROTECTION
Division Water Resources
Bureau of Permits Admin.



State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

CN 029

TRENTON, NEW JERSEY 08625

JOHN W. GASTON JR., P.E.
DIRECTOR

DIRK C. HOFMAN, P.E.
DEPUTY DIRECTOR

IN THE MATTER OF
KURT VERSEN COMPANY

* ADMINISTRATIVE ORDER AND *
* NOTICE OF CIVIL ADMINISTRATIVE *
* PENALTY ASSESSMENT *

The following FINDINGS are made and ORDER and NOTICE issued pursuant to the authority vested in the Commissioner of the New Jersey Department of Environmental Protection (NJDEP) by N.J.S.A. 13:1D-1 et seq., and the New Jersey Water Pollution Control Act, N.J.S.A. 58:10A-1 et seq., and duly delegated to the Director of the Division of Water Resources pursuant to N.J.S.A. 13:1B-4.

FINDINGS

1. Kurt Versen Company ("Kurt Versen") operates an aluminum light fixture manufacturing facility located at 10 Charles Street, Lot No. 11A and Block No. 1111, Westwood, Bergen County, New Jersey.
2. On March 18, 1981 an inspection was conducted by a representative of NJDEP's Division of Water Resources (DWR) at Kurt Versen. The inspection revealed that untreated sewage and industrial wastewaters were being discharged from a sanitary sewer line owned by the Kurt Versen Company to Haunsman's Ditch without a New Jersey Pollutant Discharge Elimination System (NPDES) permit as required by the Water Pollution Control Act, N.J.S.A. 58:10A-1 et seq. Haunsman's Ditch is

a tributary of the Oradell Reservoir and a source of potable water. Mr. Emil Loeffel, the plant manager, was informed at the time of the inspection that the discharge constituted a violation of N.J.S.A. 58:10A-1 et seq.

3. On March 19, 1981 DWR issued a Telegram Order to the Kurt Versen Company requiring the company to immediately cease the discharge of pollutants, perform necessary repairs to the subject sewer line, remove accumulated solids from Haunsman's Ditch, and upon completion of these actions, submit a report regarding the discharge incident of March 18, 1981 to DWR.
4. On April 7, 1981 Kurt Versen submitted to DWR a memorandum summarizing the conditions which led to the discharge and the corrective actions taken to comply with the DWR's Telegram Order noted in paragraph 3 of this Order. According to the memorandum, these actions included: 1) the elimination of the discharge by the discontinuation of production; 2) the installation of a temporary pipeline to bypass the storm sewer; 3) the construction of containment barriers; 4) the clean-up of contaminated water and sludge from Haunsman's Ditch; and, 5) the completion of a new sewer line on April 10, 1981. A representative of the DWR verified completion of the clean-up on March 27, 1981.
5. On February 25, 1985 an inspection of Kurt Versen was conducted by DWR in response to a complaint received from the Hackensack Water Company. The inspection revealed that compressor cooling wastewater was being discharged by Kurt Versen to Haunsman's Ditch. Analysis of samples collected during the inspection revealed the following pollutants:

<u>Parameter</u>	<u>Concentration</u>
trichloroethene	280 ug/l
1,2 dichloroethene	17 ug/l
tetrachloroethene	4.0 ug/l
toluene	3.0 ug/l
total suspended solids	42 mg/l
petroleum hydrocarbons	80.43 mg/l
chemical oxygen demand	44 mg/l
iron	1177 ug/l
lead	59 ug/l
temperature	30 °C

6. On March 5, 1985 DWR issued a Telegram Order requiring Kurt Versen to immediately cease the discharge of pollutants and submit a report detailing the corrective measures implemented.
7. In response to DWR's Telegram Order referenced in paragraph 6 of this Order, on March 11, 1985 Kurt Versen submitted a letter indicating that the discharge to surface waters had been eliminated and that the wastewater had been repiped to the sanitary sewer system. Representatives of DWR inspected Kurt Versen on March 14, 1985 and confirmed that the corrective action had been taken.
8. Kurt Versen does not have, nor has it ever applied for, a New Jersey Pollutant Discharge Elimination System (NJPDES) Permit to discharge to surface waters. Kurt Versen has violated N.J.S.A. 58:10A-6(a) and N.J.A.C. 7:14A-1.2(c) in that it has discharged pollutants, including hazardous substances as identified by N.J.A.C. 7:1E-1.3(j), without having obtained a valid NJPDES permit.

ORDER

NOW, THEREFORE, IT IS HEREBY ORDERED THAT Kurt Versen Company shall:

9. Cease all discharges of pollutants except in conformity with a valid New Jersey Pollutant Discharge Elimination System Permit that has been issued by DWR pursuant to the New Jersey Water Pollution Control Act, N.J.S.A. 58:10A-1 et seq.

NOTICE OF CIVIL
ADMINISTRATIVE PENALTY ASSESSMENT

10. Based upon the above FINDINGS, the NJDEP has determined that a Civil Administrative Penalty should be assessed against you pursuant to N.J.S.A. 58:10A-10(d) and N.J.A.C. 7:14-8.1 et seq.
11. Based upon a review of the criteria contained in N.J.A.C. 7:14-8.1 et seq., the NJDEP has determined that the amount of the penalty should be set at \$3750.00. Payment must be made by check or money order to "Treasurer, State of New Jersey" and submitted to NJDEP at the address in the following paragraph.

12. Any submission of information required by this ORDER and NOTICE OF CIVIL ADMINISTRATIVE PENALTY ASSESSMENT shall be made to:

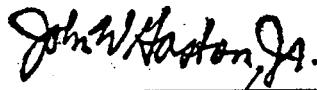
Mr. Peter T. Lynch, Chief
Metro Bureau of Regional Enforcement
NJDEP - Division of Water Resources
1100 Raymond Boulevard, Room 510
Newark, NJ 07102

13. NOTICE IS HEREBY GIVEN that pursuant to N.J.S.A. 52:14B-1 et seq., and N.J.S.A. 58:10A-10(b) and (d), Kurt Versen Company is entitled to a hearing before NJDEP. Any hearing request must be delivered to the person and address listed in the preceding paragraph within twenty (20) calendar days from receipt of this ORDER and NOTICE. A hearing request does not stay the terms or effect of this ORDER.
14. NOTICE IS FURTHER GIVEN that pursuant to N.J.S.A. 52:14B-9(b) and N.J.A.C. 1:1-6.1(b), the applicant in its application for a hearing shall furnish NJDEP with the following:
 - (a) A statement of the legal authority and jurisdiction under which the hearing or action to be held is requested pursuant to N.J.A.C. 1:1-6.1(b)(1);
 - (b) A reference to the particular sections of the statutes and rules involved;
 - (c) A short and plain statement of the matters of fact and law asserted; and,
 - (d) The Order provisions to which the applicant objects, the reasons for such objections, and any alternative provisions proposed by the applicant.
15. The provisions of this ADMINISTRATIVE ORDER and PENALTY ASSESSMENT shall be binding on Kurt Versen Company, its principals, agents, employees, successors, assigns, tenants and any trustee in bankruptcy or receiver appointed pursuant to a proceeding in law or equity.
16. No obligations imposed by this Order (with the exception of Paragraph No. 10) are intended to constitute a debt, damage claim, penalty or other civil action which should be limited

or discharged in a bankruptcy proceeding. All obligations imposed by this Order shall constitute continuing regulatory obligations imposed pursuant to the police powers of the State of New Jersey, intended to protect the public, health, safety and welfare.

17. NOTICE IS FURTHER GIVEN, that if no request for a hearing is received within twenty (20) calendar days, this NOTICE shall become a final Order and the Penalty would become due and payable.
18. NOTICE IS FURTHER GIVEN, that pursuant to N.J.S.A. 58:10A-10 (d), NJDEP is authorized to assess a Civil Administrative Penalty of up to \$5,000 for each violation, and additional penalties of up to \$500 for each day during which such violation continues after receipt of an Administrative Order from NJDEP.
19. NOTICE IS FURTHER GIVEN, that pursuant to N.J.S.A. 58:10A-10(e), any person who violates this Administrative Order (or who fails to pay an Administrative Penalty in full) shall be subject to civil penalties of up to \$10,000 per day for each day of violation.
20. NOTICE IS FURTHER GIVEN, that pursuant to N.J.S.A. 58:10A-10 (f), any person who willfully or negligently violates N.J.S.A. 58:10A-1 et seq., shall, upon conviction, be guilty of a misdemeanor and shall be punished by fine of not less than \$2,500, nor more than \$25,000 per day of violation, or by imprisonment for not more than one (1) year, or by both.

DATE NOV 29 1995


JOHN W. GASTON, JR., P.E.
DIRECTOR

ATTACHMENT C

MEMONEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTIONTO Mr. TanFROM Mr. Plumb *RP*DATE March 31, 1981SUBJECT Kurt Versen Company, Clean-up of Haunsman's Ditch

On March 27, 1981 a clean up was conducted of Haunsman's Ditch by All County Environmental, contractor for the Kurt Versen Company. Present for the clean-up were the following:

Robert Plumb, N. J. Department of Environmental Protection
Emil Loeffel, Kurt Versen Company, Plant Manager
Steve Silverstein, Kurt Versen Company
Frank Coppola, All County Environmental
Bruce Miller, All County Environmental, Crew Supervisor
Richard Quinn, Hackensack Water Company

The clean-up was conducted in response to a Departmental Telegram Order dated 3/19/81. Detailed below are the corrective measures initiated which resulted in the removal of solids from the waterway.

March 25, 1981 - Three containment barriers were constructed in Haunsman's Ditch

March 26, 1981 - The storm sewer between Charles Street and Daned Road was flush to consolidate the solids in the containment areas. All County Environmental was hired for the clean-up.

March 27, 1981 - The clean-up was initiated at approximately 10:30 am. The majority of the solids were concentrated in two quiescent sections of the tributary. The first area cleaned was adjacent to Daned Road. The pool involved was approximately 15X10 ft and contained approximately 6 to 8 inches of sludge in the center. The second area was adjacent to Main Street at the Emerson High School and measures approximately 50 by 20 ft. Approximately 8 inches of sludge was observed in the deepest area. All County removed all water and sludge from these two sections of the tributary amounting to 10,800 gallons. The material was manifested and delivered to Chem-Clear in Chester Pa. The clean-up was completed by 1:27 pm.

A4:G19

C
ATTACHMENT E-1

ATTACHMENT D

**CONTAMINATED SOIL DISPOSAL
JERSEY ENVIRONMENTAL CONTRACTING, INC.**

This is to certify that the material removed from

KURT VERSEN

CHARLES ST. WESTWOOD, N. J.

has been disposed of in accordance with all applicable local, state and federal regulations in the following manner

Date	Type	Quantity	Location
8/4/88	PETROLEUM HYDROCARBON	25.74 TONS	BREITENSTINE'S
	CONTAMINATED SOIL		LANDFILL

MATTHEW J. BOESE *M.J.B.*
Project Manager

Certificate No. 1063 A

ATTACHMENT E

BERGEN COUNTY UTILITIES AUTHORITY
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

Permit No.: 90-192

Effective Date: 8/22/90

Expiration Date: 8/22/91

Company I.D. No.: 0003

Name and Address of Owner: Kurt Versen Company
10 Charles Street
Westwood, New Jersey 07675

Location of Activity/Facility: 10 Charles Street
Westwood, New Jersey 07675

Type of Permit: Categorical/ >25,000 gpd

In accordance with all terms and conditions in the "Rules and Regulations for the Direct and Indirect Discharge of Wastewater to the Bergen County Utilities Authority Treatment Works", the provisions by which are incorporated in this permit, and applicable provisions of Federal and/or State regulation, permission is hereby granted to discharge industrial process wastewater into the Bergen County Utilities Authority Little Ferry Treatment Plant, via the Borough of Westwood sanitary sewer collection system, in accordance with wastewater discharge limitations, monitoring requirements, and other requirements set forth in the following tables hereof.

This permit is granted in accordance with the Industrial Wastewater Discharge Permit Application and Questionnaire and accompanying documentation, filed with the Authority, and are considered part of this permit.

Be advised that while the permit is in force, additional information may be required to be submitted and/or discharge limitations may be changed to reflect changes in applicable Federal, State and local regulations. The Permittee hereby agrees to the aforementioned.

Steven M. Mizerek
STEVEN M. MIZEREK
PRINCIPAL ENGINEER
BERGEN COUNTY UTILITIES AUTHORITY

E

Table - 1 Discharge Limitations

<u>Parameter</u>	<u>Limitation</u>	
	<u>Daily Maximum (mg/l)</u>	<u>Monthly Average (mg/l)</u>
Cadmium (T)	0.69	0.26
Chromium	2.77	1.71
Copper (T)	3.38	2.07
Lead (T)	0.69	0.43
Nickel (T)	3.98	2.38
Silver (T)	0.43	0.24
Zinc (T)	2.61	1.48
Cyanide (T) 1	0.50	—
Total Toxic Organics(TTO) 2	2.13	

	<u>Maximum Single Sample (mg/l)</u>
Arsenic (T)	0.050
Chromium, Hexavalent	0.050
Mercury (T)	0.002
Phenol	0.05

Additional Parameters

Biochemical Oxygen Demand, BOD	BCUA must be notified if over 350 mg/l
Suspended Solids, S.S.	BCUA must be notified if over 350 mg/l
pH	5.5 - 9.5 Daily Range
Total Kjeldahl Nitrogen	200 mg/l Single Sample
Ammonia Nitrogen	100 mg/l Single Sample
Oil or Grease	
Non-petroleum origin	200 mg/l Daily Maximum
Petroleum origin	100 mg/l Monthly Average
Explosivity:	150 mg/l Single Sample
	5% LEL any 2 successive Readings
	10% LEL any 1 reading

Note:

(T) = Total

1. No regulation of the monthly average for cyanide.
2. No regulation of the monthly average for TTO.

Table - 2 Monitoring Schedule

The company being Kurt Versen Company, shall monitor its effluent wastestream per the following schedule. All sampling and analysis shall be performed in accordance with 40 CFR Part 136 or the approved equivalent method.

Samples taken in compliance with the specified monitoring requirements shall be taken at the following location: The manhole, located at the southeast corner of Kurt Versen's parking lot. However, self-monitoring for cyanide must be conducted after cyanide treatment or before dilution with other wastestreams.

During the Months of: June and December

<u>Parameter</u>	<u>Sample Type</u>	<u>Sample Frequency</u>	<u>Monitoring Frequency</u>
Cadmium (T)	Composite	8 Hour	One day per month
Chromium (T)	Composite	8 Hour	One day per month
Copper (T)	Composite	8 Hour	One day per month
Lead (T)	Composite	8 Hour	One day per month
Nickel (T)	Composite	8 Hour	One day per month
Zinc (T)	Composite	8 Hour	One day per month
Cyanide (T)	Grab	1 per 8 Hours	One day per month
Chromium, Hexavalent	Grab	1 per 8 Hours	One day per month
Biological Oxygen Demand	Composite	8 Hour	One day per month
Suspended Solids	Composite	8 Hour	One day per month
pH	Grab/Continuous	3 per 8 Hours or continuous	One day per month
Total Toxic Organics*	Grab	1 per 8 Hours	One day per month

Note:

(T) = Total

*Total Toxic Organics Monitoring shall be the sum of the volatile fractions of the priority pollutants.

Table - 2 Monitoring Schedule (Con't)

Not later than fourteen (14) days following each month in the Monitoring Schedule the industrial user shall submit to Bergen County Utilities Authority a compliance report consisting at minimum of the following items:

- 1) Has the company name, ownership, contact person or authorized representative changed?
- 2) Average and maximum daily regulated wastewater flow, with an explanation of how obtained. (flow meter, volume displacement, water bills, etc.).
- 3) An accounting of each regulated pollutant either by analysis or by statement of non-use. In addition, if any pollutant is monitored more frequently than required by Table - 2 Monitoring Schedule, the results of this monitoring shall be included.
- 4) A copy of the chain of custody form shall be included, as well as the date and time of initiation of analysis.
- 5) The name of the certified laboratory that performed the analysis.
- 6) A statement of consistent compliance or a compliance schedule.
- 7) The signature of an authorized representative and the following certification statement as set forth in 40 CFR 403.6(a)(2)(ii):

"I have personally examined and am familiar with the information submitted in the attached document, and I hereby certify under penalty of law that this information was obtained in accordance with the requirements of 403.6(a). Moreover, based upon my inquiry of those individuals immediately responsible for obtaining the information reported herein, I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

Note: If sampling indicates a violation, you must notify the Authority within twenty-four (24) hours of becoming aware of such. In addition, sampling and analysis must be repeated for those pollutants found to be in violation and the results submitted within thirty (30) days of receipt of the original analytical report.

ATTACHMENT F

NEW JERSEY STATE DEPARTMENT



OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY
AIR POLLUTION CONTROL PROGRAM**All Correspondence must indicate your APC PLANT ID NUMBER**Certificate Number **034917**APC PLANT ID **00615**

(Mailing Address)

KURT VERSEN COMPANY
10 CHARLES STREET
WESTWOOD NJ 07675

(Plant Location)

VERSEN COMPANY-KURT
10 CHARLES STREET
WESTWOOD

Applicant's Designation of Equipment **ANODIZING TANKS DUAL 14000 CFM**N.J. Stack No. **001**No. of Stacks **001**No. of Sources **01**Approval **10/13/77**Effective **10/13/77**Expiration **10/13/92***** CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT ****** FIVE YEAR RENEWAL ***

THIS RENEWED FIVE YEAR CERTIFICATE IS BEING ISSUED UNDER THE AUTHORITY OF CHAPTER 106, P.L. 1967 (N.J.S.A.26:2C-9.21). THE POSSESSION OF THIS DOCUMENT DOES NOT RELIEVE YOU FROM THE OBLIGATION OF COMPLYING WITH ALL PROVISIONS OF THE NEW JERSEY ADMINISTRATIVE CODE, TITLE 7, CHAPTER 27.

IN ACCORDANCE WITH N.J.S.A. 54:4-3.56 (O 3.58), YOU MAY BE ENTITLED TO AN EXEMPTION OF TAXATION IF YOUR EQUIPMENT IS TAXED AND IS CONSIDERED TO BE AN AIR POLLUTION CONTROL DEVICE. A TAX EXEMPTION APPLICATION MAY BE OBTAINED FROM THE BUREAU OF NEW SOURCE REVIEW. (SEE OTHER SIDE)

IF IT IS NECESSARY TO AMEND YOUR EMERGENCY STANDBY PLANS, PLEASE CONSULT WITH THE APPROPRIATE REGIONAL OFFICE. (SEE OTHER SIDE)

IN ACCORDANCE WITH N.J.A.C. 7:27-8.3(D), THIS PERMIT AND CERTIFICATE MUST BE READILY AVAILABLE FOR INSPECTION ON THE OPERATING PREMISES.

NEW JERSEY STATE DEPARTMENT



OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY
AIR POLLUTION CONTROL PROGRAM**All Correspondence must indicate your APC PLANT ID NUMBER**Certificate Number **034918**APC PLANT ID **00615**

(Mailing Address)

KURT VERSEN COMPANY
10 CHARLES STREET
WESTWOOD NJ 07675

(Plant Location)

VERSEN COMPANY, KURT
10 CHARLES STREET
WESTWOOD

Applicant's Designation of Equipment **ANODIZING ROOM EXHAUST FAN**N.J. Stack No. **002**No. of Stacks **001**No. of Sources **01**Approval **10/13/77**Effective **10/13/77**Expiration **10/13/82***** CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT ****** FIVE YEAR RENEWAL ***

THIS RENEWED FIVE YEAR CERTIFICATE IS BEING ISSUED UNDER THE AUTHORITY OF CHAPTER 106, P.L. 1967 (N.J.S.A.26:2C-9.2). THE POSSESSION OF THIS DOCUMENT DOES NOT RELIEVE YOU FROM THE OBLIGATION OF COMPLYING WITH ALL PROVISIONS OF THE NEW JERSEY ADMINISTRATIVE CODE, TITLE 7, CHAPTER 27.

IN ACCORDANCE WITH N.J.S.A. 54:9-3.56 TO 3.58, YOU MAY BE ENTITLED TO AN EXEMPTION OF TAXATION IF YOUR EQUIPMENT IS TAXED AND IS CONSIDERED TO BE AN AIR POLLUTION CONTROL DEVICE. A TAX EXEMPTION APPLICATION MAY BE OBTAINED FROM THE BUREAU OF NEW SOURCE REVIEW. (SEE OTHER SIDE)

IF IT IS NECESSARY TO AMEND YOUR EMERGENCY STANDEI PLANS, PLEASE CONSULT WITH THE APPROPRIATE REGIONAL OFFICE. (SEE OTHER SIDE)

IN ACCORDANCE WITH N.J.A.C. 7:27-8.3101, THIS PERMIT AND CERTIFICATE MUST BE READILY AVAILABLE FOR INSPECTION ON THE OPERATING PREMISES.

NEW JERSEY STATE DEPARTMENT



OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY
AIR POLLUTION CONTROL PROGRAM**ALL Correspondence must indicate your APC PLANT ID NUMBER**Certificate Number **041338**APC PLANT ID **00619**

(Mailing Address)

**KURT VERSEN COMPANY
10 CHARLES STREET
WESTWOOD NJ 07675**

(Plant Location)

**VERSEN COMPANY, KURT
10 CHARLES STREET
WESTWOOD**

Applicant's Designation of Equipment **GRINDING & POLISHING**N.J. Stack No. **003**No. of Stacks **001**Approval **01/19/79**Effective **01/19/79**No. of Sources **13**Expiration **01/16/94***** CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT ****** FIVE YEAR RENEWAL ***

THIS RENEWED FIVE YEAR CERTIFICATE IS BEING ISSUED UNDER THE AUTHORITY OF CHAPTER 106, P.L. 1967 (N.J.S.A.26:2C-9.2). THE POSSESSION OF THIS DOCUMENT DOES NOT RELIEVE YOU FROM THE OBLIGATION OF COMPLYING WITH ALL PROVISIONS OF THE NEW JERSEY ADMINISTRATIVE CODE, TITLE 7, CHAPTER 27.

IN ACCORDANCE WITH N.J.S.A. 54:4-5.56 TO 5.58, YOU MAY BE ENTITLED TO AN EXEMPTION OF TAXATION IF YOUR EQUIPMENT IS TAXED AND IS CONSIDERED TO BE AN AIR POLLUTION CONTROL DEVICE. A TAX EXEMPTION APPLICATION MAY BE OBTAINED FROM THE BUREAU OF NEW SOURCE REVIEW. (SEE OTHER SIDE)

IF IT IS NECESSARY TO AMEND YOUR EMERGENCY STANDBY PLANS, PLEASE CONSULT WITH THE APPROPRIATE REGIONAL OFFICE. (SEE OTHER SIDE)

IN ACCORDANCE WITH N.J.A.C. 7:27-8.3(b), THIS PERMIT AND CERTIFICATE MUST BE READILY AVAILABLE FOR INSPECTION ON THE OPERATING PREMISES.

N.J. Department of Environmental Protection
Division of Environmental Quality
CN-027, 401 East State Street
Trenton, New Jersey 08625

Approved by: _____

NEW JERSEY STATE DEPARTMENT



OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY
AIR POLLUTION CONTROL PROGRAM**All Correspondence must indicate your APC PLANT ID NUMBER**Certificate Number **041339**APC PLANT ID **00615**

(Mailing Address)

KURT VERSEN COMPANY
10 CHARLES STREET
WESTWOOD NJ 07675

(Plant Location)

VERSEN COMPANY, KURT
10 CHARLES STREET
WESTWOOD

Applicant's Designation of Equipment **FIBERGLASS FILTERS**
 N.J. Stack No. **004** No. of Stacks **001**
 Approval **01/19/79** Effective **01/19/79**

No. of Sources **01**
Expiration **01/18/94**

* CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT *

* FIVE YEAR RENEWAL *

THIS RENEWED FIVE YEAR CERTIFICATE IS BEING ISSUED UNDER THE AUTHORITY OF CHAPTER 106, P.L. 1967 (N.J.S.A.26:2C-9.2). THE POSSESSION OF THIS DOCUMENT DOES NOT RELIEVE YOU FROM THE OBLIGATION OF COMPLYING WITH ALL PROVISIONS OF THE NEW JERSEY ADMINISTRATIVE CODE, TITLE 7, CHAPTER 27.

IN ACCORDANCE WITH N.J.S.A. 54:4-3.56 TO 3.58, YOU MAY BE ENTITLED TO AN EXEMPTION OF TAXATION IF YOUR EQUIPMENT IS TAXED AND IS CONSIDERED TO BE AN AIR POLLUTION CONTROL DEVICE. A TAX EXEMPTION APPLICATION MAY BE OBTAINED FROM THE BUREAU OF NEW SOURCE REVIEW. (SEE OTHER SIDE)

IF IT IS NECESSARY TO AMEND YOUR EMERGENCY STANDBY PLANS, PLEASE CONSULT WITH THE APPROPRIATE REGIONAL OFFICE. (SEE OTHER SIDE)

IN ACCORDANCE WITH N.J.A.C. 7:27-8.3(d), THIS PERMIT AND CERTIFICATE MUST BE READILY AVAILABLE FOR INSPECTION ON THE OPERATING PREMISES.

N.J. Department of Environmental Protection
 Division of Environmental Quality
 CN-027, 401 East State Street
 Trenton, New Jersey 08625

Approved by: _____

NEW JERSEY STATE DEPARTMENT



OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY
AIR POLLUTION CONTROL PROGRAM*5*
All Correspondence must indicate your APC PLANT ID NUMBER

APC PLANT ID 00615

Certificate Number 034922

(Mailing Address)

KURT VERSEN COMPANY
10 CHARLES STREET
WESTWOOD NJ 07675

(Plant Location)

VERSEN COMPANY, KURT
10 CHARLES STREET
WESTWOOD

Applicant's Designation of Equipment ANODIZING TANK DUAL 16000 CFM

N.J. Stack No. 005

No. of Stacks 001

No. of Sources 01

Approval 11/21/78

Effective 11/21/78

Expiration 11/21/93

* CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT *

* FIVE YEAR RENEWAL *

THIS RENEWED FIVE YEAR CERTIFICATE IS BEING ISSUED UNDER THE AUTHORITY OF CHAPTER 106, P.L. 1987 (N.J.S.A.26:2C-9.2). THE POSSESSION OF THIS DOCUMENT DOES NOT RELIEVE YOU FROM THE OBLIGATION OF COMPLYING WITH ALL PROVISIONS OF THE NEW JERSEY ADMINISTRATIVE CODE, TITLE 7, CHAPTER 27.

IN ACCORDANCE WITH N.J.S.A. 54:14-3.56 TO 3.58, YOU MAY BE ENTITLED TO AN EXEMPTION OF TAXATION IF YOUR EQUIPMENT IS TAXED AND IS CONSIDERED TO BE AN AIR POLLUTION CONTROL DEVICE. A TAX EXEMPTION APPLICATION MAY BE OBTAINED FROM THE BUREAU OF NEW SOURCE REVIEW (SEE OTHER SIDE).

IF IT IS NECESSARY TO AMEND YOUR EMERGENCY STANDBY PLANS, PLEASE CONSULT WITH THE APPROPRIATE REGIONAL OFFICE. (SEE OTHER SIDE)

IN ACCORDANCE WITH N.J.A.C.7:27-6.3(D), THIS PERMIT AND CERTIFICATE MUST BE READILY AVAILABLE FOR INSPECTION ON THE OPERATING PREMISES.

N.J. Department of Environmental Protection
Division of Environmental Quality
CN-027, 401 East State Street
Trenton, New Jersey 08625

Approved by: _____

NEW JERSEY STATE DEPARTMENT



DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY
AIR POLLUTION CONTROL PROGRAM

All Correspondence must indicate your APC PLANT ID NUMBER

Certificate Number 034920

APC PLANT ID 00419

(Mailing Address)

KURT VERSEN COMPANY
10 CHARLES STREET
WESTWOOD NJ 07675

(Plant Location)

VERSEN COMPANY, KURT
10 CHARLES STREET
WESTWOOD

Applicant's Designation of Equipment ANODIZING TANKS CLEANING & DYEING

N.J. Stack No. 006

No. of Stacks 001

No. of Sources 01

Approval 11/21/78

Effective 11/21/78

Expiration 11/21/93

* CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT *

* FIVE YEAR RENEWAL *

THIS RENEWED FIVE YEAR CERTIFICATE IS BEING ISSUED UNDER THE AUTHORITY OF CHAPTER 106, P.L. 1967 (N.J.S.A.26:2C-9-2). THE POSSESSION OF THIS DOCUMENT DOES NOT RELIEVE YOU FROM THE OBLIGATION OF COMPLYING WITH ALL PROVISIONS OF THE NEW JERSEY ADMINISTRATIVE CODE, TITLE 7, CHAPTER 27.

IN ACCORDANCE WITH N.J.S.A. 54:4-3.5G TO 3.5H, YOU MAY BE ENTITLED TO AN EXEMPTION OF TAXATION IF YOUR EQUIPMENT IS TAXED AND IS CONSIDERED TO BE AN AIR POLLUTION CONTROL DEVICE. A TAX EXEMPTION APPLICATION MAY BE OBTAINED FROM THE BUREAU OF NEW SOURCE REVIEW. (SEE OTHER SIDE)

IF IT IS NECESSARY TO AMEND YOUR EMERGENCY STANDBY PLANS, PLEASE CONSULT WITH THE APPROPRIATE REGIONAL OFFICE. (SEE OTHER SIDE)

IN ACCORDANCE WITH N.J.A.C. 7:27-6.3(B), THIS PERMIT AND CERTIFICATE MUST BE READILY AVAILABLE FOR INSPECTION ON THE OPERATING PREMISES.

N.J. Department of Environmental Protection
Division of Environmental Quality
CN-027, 401 East State Street
Trenton, New Jersey 08625

Approved by: _____

NEW JERSEY STATE DEPARTMENT



OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY
AIR POLLUTION CONTROL PROGRAM**All Correspondence must indicate your APC PLANT ID NUMBER**Certificate Number **035524**APC PLANT ID **00615**

(Mailing Address)

KURT VERSEN COMPANY
10 CHARLES STREET
WESTWOOD NJ 07675

(Plant Location)

VERSEN COMPANY, KURT
10 CHARLES STREET
WESTWOOD

Applicant's Designation of Equipment **50 H.P. STEAM BOILER**
 N.J. Stack No. **007** No. of Stacks **001**
 Approval **11/23/77** Effective **11/23/77**

No. of Sources **01**
Expiration 11/23/92

*** CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT ****** FIVE YEAR RENEWAL ***

THIS RENEWED FIVE YEAR CERTIFICATE IS BEING ISSUED UNDER THE AUTHORITY OF CHAPTER 106, P.L. 1967 (N.J.S.A.26:2C-0.2). THE POSSESSION OF THIS DOCUMENT DOES NOT RELIEVE YOU FROM THE OBLIGATION OF COMPLYING WITH ALL PROVISIONS OF THE NEW JERSEY ADMINISTRATIVE CODE, TITLE 7, CHAPTER 27.

IN ACCORDANCE WITH N.J.S.A. 54:4-3.56 TO 3.58, YOU MAY BE ENTITLED TO AN EXEMPTION OF TAXATION IF YOUR EQUIPMENT IS TAXED AND IS CONSIDERED TO BE AN AIR POLLUTION CONTROL DEVICE. A TAX EXEMPTION APPLICATION MAY BE OBTAINED FROM THE BUREAU OF NEW SOURCE REVIEW. (SEE OTHER SIDE)

IF IT IS NECESSARY TO AMEND YOUR EMERGENCY STANDBY PLANS, PLEASE CONSULT WITH THE APPROPRIATE REGIONAL OFFICE. (SEE OTHER SIDE)

IN ACCORDANCE WITH N.J.A.C. 7:27-8.3(d), THIS PERMIT AND CERTIFICATE MUST BE READILY AVAILABLE FOR INSPECTION ON THE OPERATING PREMISES.

NEW JERSEY STATE DEPARTMENT



OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY
AIR POLLUTION CONTROL PROGRAM**All Correspondence must indicate your APC PLANT ID NUMBER**Certificate Number **065739**APC PLANT ID **00615**

(Mailing Address)

**KURT VERSEN COMPANY
10 CHARLES STREET
WESTWOOD NJ 07675**

(Plant Location)

**VERSEN COMPANY, KURT
10 CHARLES STREET
WESTWOOD**

Applicant's Designation of Equipment **THREE STAGE PARTS WASHER**N.J. Stack No. **008**No. of Stacks **002**No. of Sources **01**Approval **08/30/83**Effective **11/28/83**Expiration **11/21/94***** CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT ****** FIVE YEAR RENEWAL ***

THIS RENEWED FIVE YEAR CERTIFICATE IS BEING ISSUED UNDER THE AUTHORITY OF CHAPTER 10G, P.L. 1967 (N.J.S.A. 26:2C-9.2). THE POSSESSION OF THIS DOCUMENT DOES NOT RELIEVE YOU FROM THE OBLIGATION OF COMPLYING WITH ALL PROVISIONS OF THE NEW JERSEY ADMINISTRATIVE CODE, TITLE 7, CHAPTER 27.

IN ACCORDANCE WITH N.J.S.A. 44:4-3.56 TO 3.58, YOU MAY BE ENTITLED TO AN EXEMPTION OF TAXATION IF YOUR EQUIPMENT IS TAXED AND IS CONSIDERED TO BE AN AIR POLLUTION CONTROL DEVICE. A TAX EXEMPTION APPLICATION MAY BE OBTAINED FROM THE BUREAU OF NEW SOURCE REVIEW. (SEE OTHER SIDE)

IF IT IS NECESSARY TO AMEND YOUR EMERGENCY STANDBY PLANS, PLEASE CONSULT WITH THE APPROPRIATE REGIONAL OFFICE. (SEE OTHER SIDE)

IN ACCORDANCE WITH N.J.A.C. 7:27-6.3(D), THIS CERTIFICATE MUST BE READILY AVAILABLE FOR INSPECTION ON THE OPERATING PREMISES.

N.J. Department of Environmental Protection
Division of Environmental Quality
CN-027, 401 East State Street
Trenton, New Jersey 08625

Approved by: _____

NEW JERSEY STATE DEPARTMENT

OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY
AIR POLLUTION CONTROL PROGRAM**All Correspondence must indicate your APC PLANT ID NUMBER**Certificate Number **069859**APC PLANT ID **00615**

(Mailing Address)

(Plant Location)

KURT VERSEN COMPANY
10 CHARLES STREET
WESTWOOD NJ 07675

VERSEN COMPANY, KURT
10 CHARLES STREET
WESTWOOD

Applicant's Designation of Equipment **BOILER #2**N.J. Stack No. **009**No. of Stacks **001**Approval **10/10/84**Effective **10/10/84**No. of Sources **01**Expiration **10/10/94***** CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT ****** FIVE YEAR RENEWAL ***

THIS RENEWED FIVE YEAR CERTIFICATE IS BEING ISSUED UNDER THE AUTHORITY OF CHAPTER 106, P.L. 1957 (N.J.S.A.26:2C-9.2). THE POSSESSION OF THIS DOCUMENT DOES NOT RELIEVE YOU FROM THE OBLIGATION OF COMPLYING WITH ALL PROVISIONS OF THE NEW JERSEY ADMINISTRATIVE CODE, TITLE 7, CHAPTER 27.

IN ACCORDANCE WITH N.J.S.A. 54:4-3.56 TO 3.58, YOU MAY BE ENTITLED TO AN EXEMPTION OF TAXATION IF YOUR EQUIPMENT IS TAXED AND IS CONSIDERED TO BE AN AIR POLLUTION CONTROL DEVICE. A TAX EXEMPTION APPLICATION MAY BE OBTAINED FROM THE BUREAU OF NEW SOURCE REVIEW. (SEE OTHER SIDE)

IF IT IS NECESSARY TO AMEND YOUR EMERGENCY STANDBY PLANS, PLEASE CONSULT WITH THE APPROPRIATE REGIONAL OFFICE. (SEE OTHER SIDE)

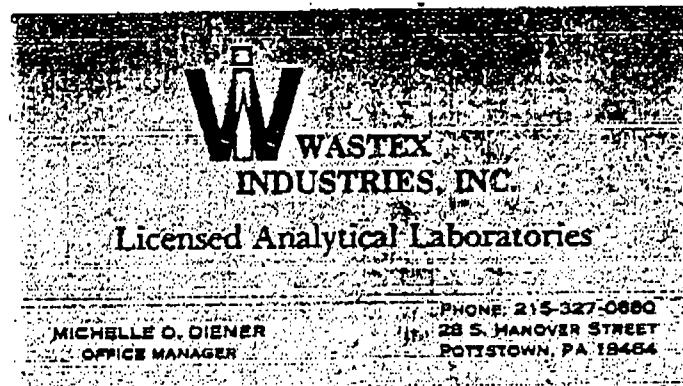
IN ACCORDANCE WITH N.J.A.C. 7:27-6.3(D), THIS PERMIT AND CERTIFICATE MUST BE READILY AVAILABLE FOR INSPECTION ON THE OPERATING PREMISES.

N.J. Department of Environmental Protection
Division of Environmental Quality
CN-027, 401 East State Street
Trenton, New Jersey 08625

Approved by: _____

ATTACHMENT G

TO: American Environment Tech
ATTENTION: Mike Toder
FROM: Diana



FAX NUMBER: 215-327-9608 to 201-664-4801
DATE: 6-22-88
NUMBER OF PAGES: 8

f

Industries, Inc.

P.A. DER 46005
N.J. DEF 77371

Licensed Analytical Laboratories

28 S. Hanover Street Pottstown, PA. 19464 215/327-0880 FAX 215/327-9608
125 Main Avenue Elmwood Park, N.J. 07407 201/791-6700
P.O. #
Sample # 880622.087

Customer # aetc

For American Environment Tech
38-40 Oak Street
Norwood NJ 07648
Attn: Debbie

Date Sampled 6-21-88 2:50 PM Date Rec. 6-22-88 10:50 AM
Sampled By Vinnie Rec by SLG
Sample grab PWS ID :
Sample ID Kurt Versen Charles St. Westwood NJ
C8425 Sample 1 Inside Hole North

General
Petroleum Hydrocarbons 70 mg/kg

Signature

D. Jones

Industries, Inc.

P.A. DER 46005
N.J. DEP 77371

Licensed Analytical Laboratories

28 S. Hanover Street Pottstown, PA. 19464 215/327-0880 FAX 215/327-9608
125 Main Avenue Elmwood Park, N.J. 07407 201/791-6700
P.O. #
Sample # 880622.088

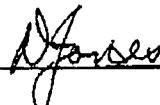
Customer # aetc

For American Environment Tech
38-40 Oak Street
Norwood NJ 07648
Attn: Debbie

Date Sampled 6-21-88 2:50 PM Date Rec. 6-22-88 10:50 AM
Sampled By Vinnie Rec by SLG
Sample grab PWS ID :
Sample ID Kurt Versen Charles St. Westwood NJ
C8426 Sample 2 Inside Hole NE

General
Petroleum Hydrocarbons 15 mg/kg

Signature



Industries, Inc.

Licensed Analytical Laboratories

P.A. DER 46005
N.J. DEP 77371

28 S. Hanover Street Pottstown, PA. 19464 215/327-0880 FAX 215/327-9608
125 Main Avenue Elwood Park, N.J. 07407 201/791-6700

P.O. #
Sample # 880622.090

Customer # aetc

For American Environment Tech
38-40 Oak Street
Norwood NJ 07648
Attn: Debbie

Date Sampled 6-21-88 2:50 PM
Sampled By Vinnie
Sample grab
Sample ID Kurt Verso

Date Rec. 6-22-88 10:50 AM
Rec by SLG
FWS ID :

FWS ID :

Kurt Versen Charles St. Westwood NJ
C8428 Sample 4 Inside Hole South

**General
Petroleum Hydrocarbons** 230 mg/kg

Signature D. Jones

28 S. Hanover Street Pozzstown, PA. 19464 215/327-0880 FAX 215/327-9608
125 Main Avenue Elmwood Park, N.J. 07407 201/791-6700
P.O. #
Sample # 880622.089

Customer # aetc
For American Environment Tech
38-40 Oak Street
Norwood NJ 07648
Attn: Debbie

Date Sampled 6-21-88 2:50 PM Date Rec. 6-22-88 10:50 AM
Sampled By Vinnie Rec by SLG
Sample grab PWS ID :
Sample ID Kurt Versen Charles St. Westwood NJ
C8427 Sample 3 Inside Hole SE

General
Petroleum Hydrocarbons 10 mg/kg

Signature J. Jones

~~ex~~ Industries, Inc.

Licensed Analytical Laboratories

P.A. DER 46005
N.J. DEP 77371

28 S. Hanover Street Pottstown, PA. 19464 215/327-0880 FAX 215/327-9608
125 Main Avenue Elmwood Park, N.J. 07407 201/791-6700

P.O. #

Sample # 880622.091

Customer # aetc

For American Environment Tech
38-40 Oak Street
Norwood NJ 07648
Attn: Debbie

Date Sampled 6-21-88 2:50 PM Date Rec. 6-22-88 10:50 AM
Sampled By Vinnie Rec by SLG
Sample grab FWS ID :
Sample ID Kurt Versen Charles St. Westwood NJ
C8429 Sample 5 Inside Hole SW

General
Petroleum Hydrocarbons 75 mg/kg

Signature

Djones

Cex Industries, Inc.

P.A. DER 460
N.J. DEP 773

Licensed Analytical Laboratories

28 S. Hanover Street Pottstown, PA. 19464 215/327-0880 FAX 215/327-9608
125 Main Avenue Elmwood Park, N.J. 07407 201/791-6700
P.O. #
Sample # 880622.092

Customer # aetc
For American Environment Tech
38-40 Oak Street
Norwood NJ 07648
Attn: Debbie

Date Sampled 6-21-88 2:50 PM Date Rec. 6-22-88 10:50 AM
Sampled By Vinnie Rec by SLG
Sample grab PWS ID :
Sample ID Kurt Versen Charles St. Westwood NJ
C8430 Sample 6 Inside Hole NW

General
Petroleum Hydrocarbons 1,465 mg/kg

Signature D. G. L.

22 '88 18:01 215-327-9608

Tex Industries, Inc.

Licensed Analytical Laboratories

P.7/8

P.A. DER 46005
N.J. DEP 77371

28 S. Hanover Street
125 Main Avenue

Pottstown, PA.

19464

215/327-0880 FAX 215/327-9608
Elmwood Park, N.J. 07407 201/791-6700

P.O. #

Sample # 880622.093

Customer # aetc

For American Environment Tech
38-40 Oak Street
Norwood NJ 07648
Attn: Debbie

Sampled 6-21-88

2:50 PM

Date Rec. 6-22-88

10:50 AM

Rec by SLG

PWS ID :

Kurt Versen Charles St. Westwood NJ
C8431 Sample 7 Inside Hole Center Floor

Sampled By Vinnie

Sample grab

Sample ID

1,250

mg/kg

Signature

A. Versen

Petroleum Hydrocarbons

General



Laboratory Resources INC

363 Old Hook Road
Westwood, New Jersey 07675
201-666-6644

CLIENT: 001170
Kurt Versen
10 Charles Street PO Box 677
Westwood, New Jersey 07675

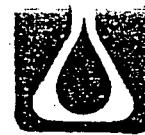
Date of Report: 07/05/88
Sample ID No. 5203-5206
Date Sample Received: 06/23/88
Collected From: See Below
Sample Collected by:
Laboratory Resources []
Client [✓]

Location	Petroleum Hydrocarbons
6 A	51.0
6 B	1140
4 A	72.5
4 B	103

Patrice A. Conlon
Manager

All results expressed in mg/l unless otherwise stated.

All analysis performed in accordance with the latest edition of Standard Methods for the Examination of Water and Waste and the EPA Methods for Chemical Analysis of Water and Wastes.



P.O.
37092

Laboratory Resources.

363 Old Hook Road Westwood, New Jersey 07675 201/666-6644

CHAIN OF CUSTODY RECORD

Organization <i>Kurt Vesen</i>	Date Collected 6/23/88	Collected By <i>Andrew Nazari</i>
Sample Container/Preservation (Circle one for each category) <input checked="" type="checkbox"/> GLASS, <input type="checkbox"/> PLASTIC // 4°C, pH<2--H ₂ SO ₄ , HNO ₃		Method of Shipment (Circle one) <input checked="" type="checkbox"/> HAND-DELIVERED, <input type="checkbox"/> CARRIER

Lab No.	Sample I.D.	Time Collected	Analyses Required
5203-5204	GRAB SAMPLE (Soil) *6A, *6B N.W.	2 ⁰⁰ pm	Petroleum Hydrocarbon
5205-5206	*4A, *4B South		
			\$100 per sample

Relinquished By <i>Emil Hoffert</i>	Received By <i>Roseann Morris</i>	Date/Time 6/23/88 2:45 p.m.
Lab No.		
Analyses		
Relinquished By	Received By	Date/Time
Lab No.		
Analyses		
Relinquished By	Received By	Date/Time
Lab No.		
Analyses		
Relinquished By	Received By	Date/Time
Remarks		



Laboratory Resources INC

363 Old Hook Road
Westwood, New Jersey 07675
201-666-6644
001170

CLIENT:
Kurt Versen
10 Charles Street PO Box 677
Westwood, New Jersey 07675

RECEIVED

JUL 8 1988

KURT VERSEN CO.
WESTWOOD, NEW JERSEY

Date of Report: 07/05/88
Sample ID No. 5228-5228
Date Sample Received: 06/24/88
Collected From: See Below
Sample Collected by:
Laboratory Resources
Client

Location Petroleum Hydrocarbons

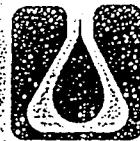
6 C	35
6 D	102

Patrick A. Gandy
Manager

All results expressed in mg/l unless otherwise stated.

All analysis performed in accordance with the latest edition of Standard Methods for the Examination of Water and Waste and the EPA Methods for Chemical Analysis of Water and Wastes.

P/O# 37092



Laboratory Resources INC.

363 Old Hook Road Westwood, New Jersey 07675 201/666-6644

Organization <i>Kurt Versen Co.</i>	Date Collected 6/24/88	Collected By <i>Andrew Morgan</i>	
Sample Container/Preservation (Circle one for each category)		Method of Shipment (Circle one)	
<input checked="" type="checkbox"/> GLASS, <input type="checkbox"/> PLASTIC // <input type="checkbox"/> 4°C, <input type="checkbox"/> pH<2, <input type="checkbox"/> H ₂ SO ₄ , <input type="checkbox"/> HNO ₃	<input checked="" type="checkbox"/> HAND-DELIVERED, <input type="checkbox"/> CARRIED		
Lab No.	Sample I.D.	Time Collected	Analyses Required
	2 GRAB SAMPLE (Soil) 7 AM		Petroleum Hydrocarbons
5228	6C 6D		
5229	North West Section		
Relinquished By <i>Connie Toffler</i>		Received By <i>Christie LaRocca</i>	Date/Time 6/24/88 10:00 AM
Lab No.			
Analyses			
Relinquished By		Received By	Date/Time
Lab No.			
Analyses			
Relinquished By		Received By	Date/Time
Lab No.			
Analyses			
Relinquished By		Received By	Date/Time
Remarks			

ATTACHMENT H



15737

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF ENVIRONMENTAL QUALITY
JOHN FITCH PLAZA, P. O. BOX 2807, TRENTON, N. J. 08625

ORDER

To: Kurt Versen Company
Richard C. Anisfield, Registered
Agent
10 Charles Street
Westwood, New Jersey 07675
and
Richard C. Anisfield
Yantachaw Brood Road
Montclair, New Jersey 07092

Re: N.J.A.C. 7:27- 8.3(a) & (b)
Plant Identification No. 00615
Violation Occured on Premises
Known As:
10 Charles Street, Block 1111, Lot
11A, Westwood Borough, Bergen
County, New Jersey

WHEREAS, the State Department of Environmental Protection has determined by investigation(s) or inspection(s) made pursuant to the Provisions of the New Jersey Air Pollution Control Act that on June 8, 1977 you did violate Title 7, Chapter 27, Subchapter 8, Section 8.3(a) & (b), of the New Jersey Administrative Code.

(a) that 2 grinders, 4 polishers & 4 automatic polishers serviced by a cyclone and a baghouse, 2 cut off saws serviced by a filter, a 7 tank bright dip operation serviced by a Duall scrubber, a 6 tank dyeing & cleaning operation serviced by a Duall scrubber, a 4 tank anodizing system serviced by a Duall scrubber and a roof fan venting all 3 tank & scrubber systems were constructed, installed or altered on the premises identified above without first having obtained a "Permit to Construct, Install or Alter Control Apparatus or Equipment" from the Department.

(b) that 4 polishers & 2 automatic polishers serviced by a cyclone & a baghouse, a cleaning tank & scrubber and an anodizing tank & scrubber were used or caused to be used on the premises identified above without first having obtained a "Certificate to Operate Control Apparatus or Equipment" from the Department.

NOW, THEREFORE, YOU ARE HEREBY ORDERED, to cease violation of said Subchapter on the premises owned, leased, operated or maintained by you on or before September 14, 1977.

Dated: July 15, 1977

Herbert Wortreich, Chief
Bureau of Air Pollution Control

c: Local District Westwood Borough
Field Office Newark

CERTIFIED MAIL

ATTACHMENT I



MJ I have
M.J. (AN) a copy
of ORDER FILE

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF WATER RESOURCES

TRENTON, NEW JERSEY 08625

Arnold Schiffman
Director

TELEGRAM ORDER

Mr. Emil Loeffel, Plant Manager
Kurt Versen Company
10 Charles Street
Westwood, New Jersey 07675
(201) 664-8200

An investigation conducted by a representative of this Department on March 18, 1981, revealed that untreated sewage and industrial wastewater is being discharged to Haunsman's Ditch, a tributary of the Oradell Reservoir. The discharge has been found to originate from a sanitary sewer line owned by the Kurt Versen Company. Partial analysis of the discharge collected on March 10, 1981 by the Hackensack Water Company revealed that it contained 232 mg/l of aluminum, 25 mg/l of total chromium, 0.33 mg/l of arsenic and 0.15 mg/l of lead. Solids were also observed deposited in the quiescent sections of Haunsman's Ditch.

This discharge is in such a manner as to cause or threaten injury to the environment and the inhabitants of this State in their health, comfort or property in violation of N.J.S.A. 58:10A-1 et seq.

The Kurt Versen Company is therefore ORDERED to immediately institute all measures necessary to:

1. Cease said discharge.

5

2. Minimize the adverse effects of said discharge on public health and the environment until it is ceased.
3. Repair and return the subject sewer line to complete and proper operation.
4. Remove accumulated solids from Haunsman's Ditch immediately after the discharge is eliminated and dispose of same in accordance with Departmental regulations. The clean up is to be in areas designated by this Department and conducted under its supervision.

It is further ORDERED that the Kurt Versen Company make daily progress reports to Mr. Robert Plumb at (201) 648-2200 until this matter is corrected and upon correction, submit a detailed written report of the entire incident.

Failure to comply with this ORDER will result in appropriate enforcement action. Compliance, however, shall not be construed to relieve the Kurt Versen Company from appropriate penalties for the cited statutory violations.



Peter T. Lynch, Chief
Region I
Enforcement & Regulatory
Services Element



State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

CN 029

TRENTON, NEW JERSEY 08625

JOHN W. GASTON JR., P.E.
DIRECTOR

DIRK C. HOFMAN, P.E.
DEPUTY DIRECTOR

TELEGRAM ORDER

Mr. Emil Loeffel, Plant Manager
Kurt Versen Company
10 Charles Street
Westwood, New Jersey 07675
(201) 664-8200

An inspection of your facility was conducted by representatives of the Division of Water Resources of the Department of Environmental Protection on February 25, 1985. This inspection revealed that your facility is discharging contaminated cooling water into the waters of this State which are utilized as a source of potable water. Kurt Versen Company does not have a permit allowing such a discharge.

An analysis by the Hackensack Water Company has found that this discharge contains pollutants including trichloroethylene.

This discharge is in such a manner as to cause or threaten injury to the Environment and the inhabitants of this State in their health, comfort or property and is in violation of N.J.S.A. 58:10A-6.a. and N.J.A.C. 14A-1:2(c).

Kurt Versen Company is therefore ORDERED to:

1. Immediately cease the discharge of wastewater to the waters of this State.
2. Submit a written report to this office (1100 Raymond Boulevard, Room 510, Newark, New Jersey 07102) within ten (10) days of the issuance of this Telegram Order detailing the nature of this

discharge and the corrective measures implemented to cease it.

Failure to comply with this Order will result in appropriate enforcement action including the imposition of penalties as provided for in N.J.S.A. 58:10A-10. Compliance, however, shall not be construed to relieve Kurt Versen Company from appropriate penalties for the cited statutory violations.



Peter T. Lynch, Chief
Metro Region
Enforcement Element
Division of Water Resources

TIME: 3:26 pm

DATE: March 5, 1985

cc: John A. Hroncich, Asst. Sanitary Engineer
Paul DeStefano, Boro of Westwood, H.O.

ATTACHMENT J

ATTACHMENT K



Hackensack Water Company

200 Old Hook Road
Hollington Park, N.J. 07640
201-767-9300

March 5, 1985

Division of Water Resources
c/o Mr. Peter Lynch
1100 Raymond Blvd.
Newark, NJ 07102

Dear Mr. Lynch:

Following are the sampling analyses for TCE and PCE found discharging from a 4-inch diameter pipe to a catch basin located on the west side of Charles Street in Westwood, approximately 500 feet north of the Haunsman's Ditch:

Date	Sample Location	TCE (ppb)	PCE (ppb)
2/19/85	Catch Basin, Charles Street	980	11
2/20/85	4-inch discharge pipe	353	17
2/20/85	Discharge to Haunsman's Ditch	454	* ND
2/25/95	4-inch discharge pipe	1,200	13

* ND - not detected

Subsequent to the initial investigation and sampling conducted by Mr. Richard White from your office on February 26, 1985, the discharge has not ceased. We will continue to monitor the discharge with a weekly sample and the results will be forwarded to your office.

Very truly yours,

John A. Hroncich
Assistant Sanitary Engineer

JAH:ek

RECEIVED

MAR 11 1985

DEPT. ENVIRONMENTAL PROTECTION
NEWARK OFFICE

ATTACHMENT C-7

STATE OF NEW JERSEY
Department of Environmental Protection
Water AnalysisPLEASE TYPE OR PRINT
WITH BALLPOINT PEN

MUNICIPALITY WESTWOOD	COUNTY BERGEN	STREAM HAUNSMANS DITCH
FACILITY KURT VERSEN CO.	ADDRESS CHARLES ST.	
REPRESENTATIVE EMIL LOEFFEL	TITLE PLANT MANAGER	COLL. NAME DICK WHITE + H. MIERDACK
REMARKS OUTFALL PIPE INTO CATCH BASIN IN FRONT OF THE ABOVE COMPANY (EAST SIDE)		221 24d

CHAIN OF CUSTODY	
BACT. LAB. NO.	
DATE REC'D.	
BOTTLE NO.	26088
DATE REC'D.	
STORED ENT.	
READ	

Station Identification Number

YR. MO. DAY

HOUR

Sample No.

S C , , , , , 8 5 0 2 2 5 1 0 4 5 , (1) P 8 , 2 6 0 8 8 , ,

FIELD ANALYSIS

- Water Temp. °C. (2) P00010, **30** °C
- D.O. - Winkler (3) P00300,
- D.O. - Probe (4) P00299,
- pH (Field) (5) P00400,
- Sample Depth-ft. (6) P00003,
- Stream Flow-CFS (7) P00061,
- Gage Height-ft. (8) P00065,
- Spec. Cond. @ 25 °C (9) P00095,
- Salinity 0/00 (10) P00480,
- Tide Stage (11) P70211,

BACTERIOLOGICAL - DILUTIONS (REQUESTED)

Fecal Coliform	<input type="checkbox"/>	-1	-2	-3	-4	-5	-6
Total Coliform	<input type="checkbox"/>	10	1	10	10	10	10
Fecal Streptococci	<input type="checkbox"/>	-1	-2	-3	-4	-5	-6
	<input type="checkbox"/>	10	1	10	10	10	10
Fecal coliform	<input type="checkbox"/>	MPN (24) P31615,					
#100 ml	<input type="checkbox"/>	MF (25) P31613,					
Fecal Strept	<input type="checkbox"/>	MPN /100ml	(26) P31677,				
	<input type="checkbox"/>						
Tot coliform	<input type="checkbox"/>	MPN /100 ml	(27) P31505,				
	<input type="checkbox"/>						

BIOCHEMICAL OXYGEN DEMAND

INITIAL D.O. (Lab.) _____ SAMPLE

SEED YES NO

CONC. %		
BOD		

<input type="checkbox"/> BOD	5-DAY(28) P310,			
	6-DAY(29) P312,			

<input checked="" type="checkbox"/> COD	(30) P340,	44		

<input type="checkbox"/> TOC	(31) P00680,	6.3		

<input type="checkbox"/> Color Pt - Cou	(32) P00080,			
<input type="checkbox"/> Turbidity	(33) P00076,			
<input checked="" type="checkbox"/> Suspended Solids	(34) P00530,	42		
<input type="checkbox"/> Suspended Solids	(35) P00540,			
<input type="checkbox"/> Tot. Solids	(36) P00500,			
<input type="checkbox"/> Tot. Solids	(37) P00550,			
<input type="checkbox"/> Tot. Dissolved Solids (TDS)	(38) P70300,			

APR 26 1985

ADDITIONAL ANALYSIS

<input type="checkbox"/> Cr (HEX)	0.005 K
<input type="checkbox"/> _____	P _____

REPORT SUBMITTED
ATTACHMENT
APR 11 1985

RESULTS mg/l unless otherwise noted

DEPT. ENVIRONMENTAL PROTECTION
NEWARK OFFICE
Chemist Review

GARDEN STATE LABORATORIES, INC.

Bacteriological and Chemical Testing

399 Stuyvesant Avenue

Irvington, N.J. 07111



MATHEW KLEIN, M.S., Director

Telephone
201-373-8007

RECEIVED

JUL 18 1985

DEPT. ENVIRONMENTAL PROTECTION
NEWARK OFFICE

SAMPLE SUBMITTED: THURS. JUNE 20, 1985

WELL WATER SAMPLE

VOLATILE ORGANIC ANALYSIS BY GC/MS

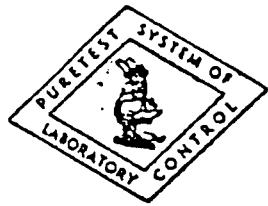
COMPOUND	RESULT	COMPOUND	RESULT
CHLOROMETHANE	<1.0	1,1,2 TRICHLOROETHANE	<1.0
BROMOMETHANE	<1.0	CIS-1,3 DICHLOROPROPYLENE	<1.0
DICHLORODIFLUOROMETHANE	<1.0	BENZENE	<1.0
VINYL CHLORIDE	<1.0	+ 2-CHLOROETHYL VINYL ETHER	<1.0
CHLOROETHANE	<1.0	BROMOFORM	<1.0
METHYLENE CHLORIDE	<1.0	1,1,2,2 TETRACHLOROETHANE	<1.0
TRICHLOROFLUOROMETHANE	<1.0	TETRACHLOROETHYLENE	<1.0
1,1 DICHLOROETHYLENE	<1.0	TOLUENE	<1.0
1,1 DICHLOROETHANE	<1.0	CHLOROBENZENE	<1.0
TRANS-1,2 DICHLOROETHYLENE	<1.0	ETHYLBENZENE	<1.0
CHLOROFORM	3.5	P-XYLENE	<1.0
1,2 DICHLOROETHANE	<1.0	M-XYLENE	<1.0
1,1,1 TRICHLOROETHANE	22.5	O-XYLENE	<1.0
CARBON TETRACHLORIDE	<1.0	1,2 DICHLOROBENZENE	<1.0
BROMODICHLOROMETHANE	<1.0	1,3 DICHLOROBENZENE	<1.0
1,2 DICHLOROPROPANE	<1.0	1,4 DICHLOROBENZENE	<1.0
TRANS-1,3 DICHLOROPROPENE	<1.0	1,2,4 TRICHLOROBENZENE	<1.0
TRICHLOROETHYLENE	4.0	ACROLEIN	<100.
DIBROMOCHLOROMETHANE	<1.0	ACRYLONITRILE	<100.

ALL RESULTS ARE IN MICROGRAMS/LITER (PARTS PER BILLION).

< = LESS THAN, NONE DETECTED,

ANALYSIS PERFORMED BY PURGE AND TRAP GAS CHROMATOGRAPHY/MASS SPECTROMETRY, USEPA 624.

ATTACHMENT D-6



GARDEN STATE LABORATORIES, INC.

Bacteriological and Chemical Testing

399 Stuyvesant Avenue

Irrington, N.J. 07111

Telephone
201-373-8007

MATHEW KLEIN, M.S., Director

TELEDYNE ISOTOPRES
50 VAN BUREN AVENUE
WESTWOOD, NJ 07675

SAMPLE SUBMITTED: THURS. JUNE 20, 1985

WELL WATER SAMPLE

RESULTS ARE IN PARTS PER BILLION.

PESTICIDES

LINDANE	<0.1
ENDRIN	<0.1
TOXAPHENE	<0.1
METHOXYCHLOR	<0.1

HERBICIDES

2,4 - D	<0.1
2,4,5 - TP SILVEX	<0.1

ATTACHMENT D-7

THE LIABILITY OF GARDEN STATE LABORATORIES, INC. FOR SERVICES RENDERED SHALL IN NO EVENT EXCEED THE AMOUNT OF THE INVOICE.

Certified by U.S. Public Health Service, N.J. Dept. of Health and N.I.D.E.P. - Lab #07044

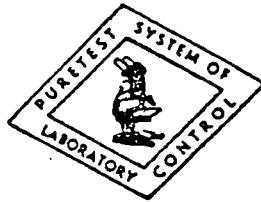
OVER PLEASE

GARDEN STATE LABORATORIES, INC.

Bacteriological and Chemical Testing

399 Stuyvesant Avenue

Irvington, N.J. 07111



Telephone
201-373-8007

MATHEW KLEIN, M.S., Director

TELEDYNE ISOTOPES
50 VAN BUREN AVENUE
WESTWOOD, NJ 07675

SAMPLE SUBMITTED: THURS. JUNE 20, 1985

RESULTS ARE IN MG/L UNLESS NOTED.

WELL WATER SAMPLE

ARSENIC	0.001	SODIUM	26.7
BARIUM	<0.1	TURBIDITY	0.11
CADMIUM	<0.001	COLOR	2.5
CHROMIUM	<0.02	MEAS	<0.1
LEAD	<0.02	FLUORIDE	<1.0
MERCURY	<0.0002	NITRATE	3.7
SILVER	<0.02	SULFATE	40.3
SELENIUM	<0.001	CHLORIDE	48.6
IRON	<0.05	TOTAL DISSOLVED SOLIDS	298.
MANGANESE	<0.02	TOTAL HARDNESS	240.
COPPER	<0.05	PH - STANDARD UNITS	7.73
ZINC	0.01	CORROSIVITY	POSITIVE 0.17

ATTACHMENT D-8

THE LIABILITY OF GARDEN STATE LABORATORIES, INC. FOR SERVICES RENDERED SHALL IN NO EVENT EXCEED THE AMOUNT OF THE INVOICE.
Certified by U.S. Public Health Service, N.J. Dept. of Health and N.J.D.E.P. - Lab #07044

OVER PLEASE

Client:

Westwood Swim Club
Tillman Road
Westwood, N.J.

Date of Report: July 12, 1985
Sample Identification: 3708
Date Sample Received: July 1, 1985
Collected From: Westwood Swim Club

602 METHOD

Parameter

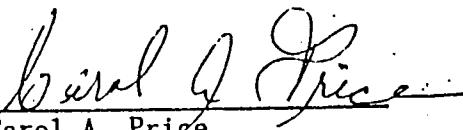
Westwood Swim Club

Benzene	<0.002
Toluene	<0.002
Ethyl benzene	<0.002
1,2- Dichlorobenzene	<0.002
1,3- Dichlorobenzene	<0.002
1,4- Dichlorobenzene	<0.002
o- Xylene	<0.002
m- Xylene	<0.002
p- Xylene	<0.002

All results expressed in mg/l

Certification No. 02046

Laboratory Resources Inc.


Carol A. Price
Manager/Laboratory Services

ANALYST
D-5

Client:

Westwood Swim Club
Tillman Road
Westwood, N.J.

Date of Report: July 12, 1985
Sample Identification No. 3708
Date Sample Received: July 1, 1985
Collected From: Westwood Swim Club

601 METHOD

Parameter

Westwood Swim Club

Chloromethane	<0.002
Bromomethane	<0.002
Dichlorodifluoromethane	<0.002
Vinyl Chloride	<0.002
Chloroethane	<0.002
Ethylene Chloride	<0.002
Trichlorofluoromethane	<0.002
1,1-Dichloroethene	<0.002
1,1-Dichloroethane	<0.002
trans-1,2-Dichloroethene	<0.002
Chloroform	<0.002
1,2-Dichloroethane	<0.002
1,1,1-Trichloroethane	<0.002
Carbon tetrachloride	<0.002
Bromodichloromethane	<0.002
1,2-Dichloropropane	<0.002
trans-1,3-Dichloropropene	<0.002
Trichloroethene	<0.002
Dibromochloromethane	<0.002
1,1,2-Trichloroethane	<0.002
is-1,3-Dichloropropene	<0.002
-Chloroethylvinyl ether	<0.002
Bromoform	<0.002
1,1,2,2-Tetrachloroethane	<0.002
Tetrachloroethene	<0.002
Chlorobenzene	<0.002

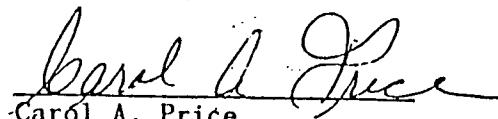
ATTACHMENT

D-4

All results expressed in mg/l

Certification No. 02046

Laboratory Resources Inc.


Carol A. Price
Manager/Laboratory Services

STANDARD WORK ORDER

WORK ORDER NO. 16374LOCATION AMBER Aluminum Co.50 CHARLES ST.WESTWOOD, N.J.I.P.P. # 00003METER NO.

SAMPLE DATES

REQUESTED 5-21-85, PLACED 5-2DELIVERED 5-23-85, TIME 12:49SAMPLED BY BWF-CM, TYPE Raw

APPEARANCE

ACIDS AND BASES (PPM)	RESULT	INT	SOLIDS (PPM)	RESULT	INT	METALS (PPB)	RESULT	INT
PH (UNITS)	<u>2.37</u>	AD	T.S.			ALUMINUM		
ACIDITY-TOTAL			T.M.S.			ANTIMONY		
ALKALINITY-TOTAL			T.V.S.			ARSENIC		
HARDNESS AS CaCO ₃			S.S.	<u>10</u>	jet H	BARIUM		
BIOLOGICAL(MPN/100ML)	RESULT	INT	M.S.S.			BERYLLIUM		
TOTAL COLIFORM			V.S.S.			CADMIUM	<u>5</u>	1M
FECAL COLIFORM			T.D.S.			CHROMIUM	<u>160</u>	1M
FECAL STREP.			SETABLE			CHROMIUM +6		
CLARITY	RESULT	INT	PHOSPHOROUS (PPM)	RESULT	INT	COPPER	<u>403</u>	1M
COLOR (UNITS)	<u>5</u>	*82	T. PHOSPHOROUS			IRON		
TURBIDITY (NTU)			O-PHOSPHATE			LEAD	<u><100</u>	1M
HALOGENS (PPM)	RESULT	INT	POLY-PHOSPHATE			MANGANESE		
CHLORIDE			OTHERS (PPM)	RESULT	INT	MERCURY		
FLUORIDE			OIL AND GREASE-TOTAL			NICKEL	<u>60</u>	1M
NITROGEN (PPM)	RESULT	INT	PET.HYDROCARB.S-TOTAL			SELENIUM		
T.K.N.	<u>0.56</u>		T. SULFIDE			SILVER	<u><10</u>	1M
AMMONIA-N	<u>0.28</u>		SULFATE			SODIUM		
ORGANIC-N	<u>0.28</u>		M.B.A.S.			THALLIUM		
NITRATE			CONDUCTIVITY (µMHO)	<u>NR</u>		VANADIUM		
NITRITE						ZINC	<u>303</u>	1M
OXYGEN DEMAND (PPM)	RESULT	INT	ORGANICS (PPM)	RESULT	INT	T.T.O. RECEIVED (Priority Pollutants)		
BOD	<u>10</u>	NP	T.V.S.					
COD								
TOC								
TOXIC NON-METAL(PPM)	RESULT	INT						
CYANIDE	<u>0.03</u>	88						
PHENOL								

	IN	OUT
TIME	11:58	12:00
TEMP.	23.9	23.4
PH	2.22	2.23

FLOW METER READING :

AFTER 47432BEFORE 47294TOTAL COMMENTS: 13800 G.P.D.# Color by Tristrips: DOM WU = 582Comp. WU = 481 482Purity = 11.8 11.2Conductivity P.T.O. not run.
P.P. T.S. 142

SAMPLES PRESERVED

BOTTLE #	PH
#3	0.79
#4	12.09
#5	1.05
#6	=
#7	=

BERGEN COUNTY UTILITIES AUTHORITY

STANDARD WORK ORDER

17481

WORK ORDER NO.

LOCATION AMBER Aluminum
30 CHARLES ST.
WESTWOOD, N.J.
METER NO. 0003

SAMPLE DATES

REQUESTED 12-1-85, PLACED 12-5-85
DELIVERED 12-6-85, TIME 11:30 AM
SAMPLED BY B.WF-FL, TYPE Flow Probing

APPEARANCE

ACIDS AND BASES (PPM)	RESULT	INT	SOLIDS (PPM)	RESULT	INT	METALS (PPB)	RESULT	INT
PH (UNITS)	<u>3.59</u>	WF	T.S.			ALUMINUM		
ACIDITY-TOTAL			T.M.S.			ANTIMONY		
ALKALINITY-TOTAL			T.V.S.			ARSENIC	<u>* 2.0</u>	IM
HARDNESS AS CaCO ₃			S.S.	<u>14</u>	µg	BARIUM		
BIOLOGICAL(MPN/100ML)	RESULT	INT	M.S.S.			BERYLLIUM		
TOTAL COLIFORM			V.S.S.			CADMIUM	<u>< 5</u>	IM
FECAL COLIFORM			T.D.S.			CHROMIUM	<u>213</u>	IM
FECAL STREP.			SETABLE			CHROMIUM +6		
CLARITY	RESULT	INT	PHOSPHOROUS (PPM)	RESULT	INT	COPPER	<u>675</u>	IM
COLOR (UNITS)	<u>15</u>	HD	T. PHOSPHOROUS			IRON		
TURBIDITY (NTU)			O-PHOSPHATE			LEAD	<u>203</u>	IM
HALOGENS (PPM)	RESULT	INT	POLY-PHOSPHATE			MANGANESE	<u>< 0.2</u>	IM
CHLORIDE			OTHERS (PPM)	RESULT	INT	MERCURY	<u>466</u>	IM
FLUORIDE			OIL AND GREASE-TOTAL	<u>5.9</u>	BP	NICKEL		
NITROGEN (PPM)	RESULT	INT	GRAB SAMPLE PET.HYDROCARB.S-TOTAL	<u>2.3</u>	PPC	SELENIUM		
T.K.N.	<u>4.2</u>	BS	T. SULFIDE			SILVER	<u>< 10</u>	IM
AMMONIA-N	<u>2.0</u>	BS	SULFATE			SODIUM		
ORGANIC-N			M.B.A.S.			THALLIUM		
NITRATE			CONDUCTIVITY (µMHO)			VANADIUM		
NITRITE						ZINC	<u>1464</u>	IM
OXYGEN DEMAND (PPM)	RESULT	INT						
BOD	<u>13</u>	802						
COD	<u>95.8</u>	73						
TOC		66						
TOXIC NON-METAL(PPM)	RESULT	INT	ORGANICS (PPM)	RESULT	INT			
CYANIDE	<u>< 0.01</u>	A1	T.V.S.					
PHENOL	<u>0.04</u>	80						

FLOW METER READING :

AFTER 64315BEFORE 64186COMMENTS: 12.900* Doubtful result because
of interferences

SAMPLES PRESERVED

BOTTLE #	PH
#3	<u>C 2</u>
#4	<u>D 12</u>
#5	<u>C 2</u>
#6	<u>C 2</u>
#7	

	IN	OUT
TIME	<u>11:30</u>	<u>9:30</u>
TEMP.	<u>60°F</u>	<u>63°F</u>
PH	<u>2.30</u>	<u>2.10</u>

P.T.O.

OCT 6 1985 C 2
TS 37.5

Client:

Kurt Versen
10 Charles Street
P.O. Box 677
Westwood, New Jersey 07675

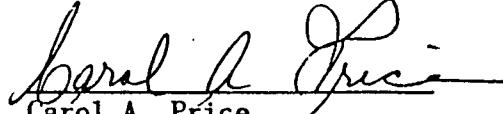
Date of Report: 1/14/86
Sample Identification No. 6442
Date Sample Received: 12/10/85
Collected From: 10 Charles Street

601 METHOD

ParameterResults

Chloromethane	<0.01
Bromomethane	<0.01
Dichlorodifluoromethane	<0.01
Vinyl Chloride	<0.01
Chloroethane	<0.01
ethylene Chloride	<0.01
Trichlorofluoromethane	<0.01
1,1-Dichloroethene	<0.01
1,1-Dichloroethane	<0.01
trans-1,2-Dichloroethene	<0.01
Chloroform	<0.01
1,2-Dichloroethane	<0.01
1,1,1-Trichloroethane	<0.01
Carbon tetrachloride	<0.01
Bromodichloromethane	<0.01
1,2-Dichloropropane	<0.01
trans-1,3-Dichloropropene	<0.01
Trichloroethene	0.67
Dibromochloromethane	<0.01
1,1,2-Trichloroethane	<0.01
cis-1,3-Dichloropropene	<0.01
-Chloroethylvinyl ether	<0.01
bromoform	<0.01
1,1,2,2-Tetrachloroethane	<0.01
Tetrachloroethene	<0.01
Chlorobenzene	<0.01

Laboratory Resources Inc.


Carol A. Price
Manager/Laboratory Services

All results expressed in mg/l

Certification No. 02046

BERGEN COUNTY UTILITIES AUTHORITY

18786

STANDARD WORK ORDER

WORK ORDER NO. _____

LOCATION AMBER Aluminum
50 Charles St
Weston, N.J.
METER NO. 5003

SAMPLE DATES

REQUESTED 4-1-86, PLACED 4-10-86
DELIVERED 4-11-86, TIME 11:15 AM
SAMPLED BY VBW, TYPE ppm

APPEARANCE

ACIDS AND BASES (PPM)	RESULT	INT	SOLIDS (PPM)	RESULT	INT	METALS (PPB)	RESULT	INT
PH (UNITS)	<u>2.58</u>	<u>g</u>	T.S.			1 ALUMINUM	<u>Ca</u>	
ACIDITY-TOTAL			T.M.S.			ANTIMONY		
ALKALINITY-TOTAL			T.V.S.			ARSENIC	<u>As</u>	<u>ppm</u>
HARDNESS AS CaCO ₃			S.S.	<u>15</u>	<u>g</u>	BARIUM		
BIOLOGICAL(MPN/100ML)	RESULT	INT	M.S.S.			BERYLLIUM		
TOTAL COLIFORM			V.S.S.			CADMIUM	<u>5</u>	<u>ppm</u>
FECAL COLIFORM			T.D.S.			CHROMIUM	<u>160</u>	<u>ppm</u>
FECAL STREP.			SETABLE			CHROMIUM +6		
CLARITY	RESULT	INT	PHOSPHOROUS (PPM)	RESULT	INT	COPPER	<u>Cu43</u>	<u>ppm</u>
COLOR (UNITS)	<u>5.0</u>	<u>g</u>	T. PHOSPHOROUS			IRON		
TURBIDITY (NTU)			O-PHOSPHATE			LEAD	<u><100</u>	<u>ppm</u>
HALOGENS (PPM)	RESULT	INT	POLY-PHOSPHATE			MANGANESE		
CHLORIDE			OTHERS (PPM)	RESULT	INT	MERCURY	<u><0.2</u>	<u>ppm</u>
FLUORIDE			OIL AND GREASE-TOTAL	<u>50.1</u>	<u>g</u>	NICKEL	<u>57</u>	<u>ppm</u>
NITROGEN (PPM)	RESULT	INT	PET. HYDROCARB.S-TOTAL	<u>50.1</u>	<u>g</u>	SELENIUM		
T.K.N.	<u>1.7</u>	<u>g</u>	T. SULFIDE			SILVER	<u>10</u>	<u>ppm</u>
AMMONIA-N	<u>1.0</u>	<u>g</u>	SULFATE			SODIUM		
ORGANIC-N			M.B.A.S.			THALLIUM		
NITRATE			CONDUCTIVITY (UMHO)			VANADIUM		
NITRITE						ZINC	<u>117</u>	<u>ppm</u>
OXYGEN DEMAND (PPM)	RESULT	INT	ORGANICS (PPM)	RESULT	INT			
BOD	<u>1.0</u>	<u>g</u>	T.V.S.					
COD								
TOC								
TOXIC NON-METAL(PPM)	RESULT	INT						
CYANIDE Comp.	<u>.027</u>	<u>AD</u>						
PHENOL	<u>0.16</u>	<u>g</u>						

	IN	OUT
TIME	10:00	9:50
TEMP.	18°	18°
PH	2.60	2.53

COMMENTS: +29.00

P.T.O.

SAMPLES PRESERVED	
BOTTLE #	PH
#3	1.98
#4	12.88
#5	2.00
#6	1.97
#7	1.99

TS 505

BE GEN COUNTY UTILITIES AUTHORITY

STANDARD WORK ORDER

19737

WORK ORDER NO.

LOCATION AMBER ALUMINUM
50 CHARLES ST.
WESTWOOD, N.J.
METER NO. #0003

SAMPLE DATES
REQUESTED 8-1-86, PLACED 8-28
DELIVERED 8-29-86, TIME 2:15 P
SAMPLED BY B.W.F-PB, TYPE F.P.C.

APPEARANCE

ACIDS AND BASES (PPM)	RESULT	INT	SOLIDS (PPM)	RESULT	INT	METALS (PPB)	RESULT	INT
PH (UNITS)	<u>2.00</u>	WF	T.S.	—	—	ALUMINUM	—	—
ACIDITY-TOTAL	—	—	T.M.S.	—	—	ANTIMONY	—	—
ALKALINITY-TOTAL	—	—	T.V.S.	—	—	ARSENIC	<u>≤2</u>	1h
HARDNESS AS CaCO ₃	—	—	S.S.	<u>166</u>	ppm	BARIUM	—	—
BIOLOGICAL(MPN/100ML)	RESULT	INT	M.S.S.	—	—	BERYLLIUM	—	—
TOTAL COLIFORM	—	—	V.S.S.	—	—	CADMIUM	<u>10</u>	1h
FECAL COLIFORM	—	—	T.D.S.	—	—	CHROMIUM	<u>115</u>	1h
FECAL STREP.	—	—	SETABLE	—	—	CHROMIUM +6	<u>≤25</u>	DE
CLARITY	RESULT	INT	PHOSPHOROUS (PPM)	RESULT	INT	COPPER	<u>940</u>	1h
COLOR (UNITS)	<u>≤5</u>	80	T. PHOSPHOROUS	—	—	IRON	—	—
TURBIDITY (NTU)	—	—	O-PHOSPHATE	—	—	LEAD	<u>240</u>	1h
HALOGENS (PPM)	RESULT	INT	POLY-PHOSPHATE	—	—	MANGANESE	—	—
CHLORIDE	—	—	OTHERS (PPM)	RESULT	INT	MERCURY	<u>0.3</u>	1h
FLUORIDE	—	—	OIL AND GREASE-TOTAL	<u>4.87</u>	AD	NICKEL	<u>132</u>	1h
NITROGEN (PPM)	RESULT	INT	PET.HYDROCARB.S-TOTAL	<u>≤2</u>	AD	SELENIUM	—	—
T.K.N.	<u>4.2</u>	AD	T. SULFIDE	—	—	SILVER	—	—
AMMONIA-N	<u>0.5</u>	AD	SULFATE	—	—	SODIUM	—	—
ORGANIC-N	—	—	M.B.A.S.	—	—	THALLIUM	—	—
NITRATE	—	—	CONDUCTIVITY (UMHO)	—	—	VANADIUM	—	—
NITRITE	—	—	—	—	—	ZINC	<u>386</u>	1h
OXYGEN DEMAND (PPM)	RESULT	INT	ORGANICS (PPM)	RESULT	INT	—	—	—
BOD	<u>51</u>	Lar	T.V.S.	—	—	—	—	—
COD	—	—	—	—	—	I.T.O.	—	—
TOC	—	—	—	—	—	—	—	—
TOXIC NON-METAL(PPM)	RESULT	INT	—	—	—	—	—	—
CYANIDE	<u>≤0.02</u>	99	FLOW METER READING :	—	—	SAMPLES PRESERVE	—	—
PHENOL	<u>≤0.05</u>	99	AFTER <u>23,800</u> GALS.	—	—	BOTTLE #	PH	—

	IN	OUT
TIME	12:15	11:00
TEMP.	72°F	70°F
PH	2.23	3.10

COMMENTS: 21,182 TOTAL GALS.

P.T.O.

#3	<u>155</u>
#4	<u>12.36</u>
#5	<u>1.85</u>
#6	<u>1.80</u>
#7 O.G.	<u>1.80</u>

TS. 633

BERG COUNTY UTILITIES AUTHORITY

21669

STANDARD WORK ORDER

WORK ORDER NO.

LOCATION AMBER ALUMINUM
50 CHARLES ST.
WESTWOOD, N.J.
METER NO. 0003

SAMPLE DATES

REQUESTED 4/1/87, PLACED 4/1/87
DELIVERED 4/22/87, TIME 10:00
SAMPLED BY K.D.H.C.B., TYPE FPC

APPEARANCE

ACIDS AND BASES (PPM)	RESULT	INT	SOLIDS (PPM)	RESULT	INT	METALS (PPB)	RESULT	INT
PH (UNITS)	<u>2.45</u>	<u>JB</u>	T.S.	—	—	ALUMINUM	—	—
ACIDITY-TOTAL	—	—	T.M.S.	—	—	ANTIMONY	—	—
ALKALINITY-TOTAL	—	—	T.V.S.	—	—	ARSENIC	<u>≤ 2</u>	<u>1m</u>
HARDNESS AS CaCO ₃	—	—	S.S.	—	—	BARIUM	—	—
BIOLOGICAL(MPN/100ML)	RESULT	INT	M.S.S.	—	—	BERYLLIUM	—	—
TOTAL COLIFORM	—	—	V.S.S.	—	—	CADMIUM	<u>≤ 5</u>	<u>1m</u>
FECAL COLIFORM	—	—	T.D.S.	—	—	CHROMIUM	<u>135</u>	<u>1m</u>
FECAL STREP.	—	—	SETABLE	—	—	CHROMIUM +6	<u>≤ 25</u>	<u>SD</u>
CLARITY	RESULT	INT	PHOSPHOROUS (PPM)	RESULT	INT	COPPER	<u>590</u>	<u>1m</u>
COLOR (UNITS)	<u>≤ 5</u>	<u>SD</u>	T. PHOSPHOROUS	(FC) <u>≤ 2</u>	FC	IRON	—	—
TURBIDITY (NTU)	—	—	O-PHOSPHATE	<u>≤ 2</u>	FC	LEAD	<u>≤ 100</u>	<u>1m</u>
HALOGENS (PPM)	RESULT	INT	POLY-PHOSPHATE	—	—	MANGANESE	—	—
CHLORIDE	—	—	OTHERS (PPM)	RESULT	INT	MERCURY	<u>≤ 0.2</u>	<u>1m</u>
FLUORIDE	—	—	OIL AND GREASE-TOTAL	<u>≤ 2.0</u>	FC	NICKEL	<u>2780</u>	<u>1m</u>
NITROGEN (PPM)	RESULT	INT	PET. HYDROCARB.S-TOTAL	<u>≤ 2.0</u>	FC	SELENIUM	—	—
T.K.N.	<u>1.4</u>	<u>SD</u>	T. SULFIDE	—	—	SILVER	<u>≤ 10</u>	<u>1m</u>
AMMONIA-N	<u>≤ 1</u>	<u>SD</u>	SULFATE	—	—	SODIUM	—	—
ORGANIC-N	—	—	M.B.A.S.	—	—	THALLIUM	—	—
NITRATE	—	—	CONDUCTIVITY (UMHO)	—	—	VANADIUM	—	—
NITRITE	—	—	—	—	—	ZINC	<u>290</u>	<u>1m</u>
OXYGEN DEMAND (PPM)	RESULT	INT	ORGANICS (PPM)	RESULT	INT	—	—	—
BOD	<u>16</u>	<u>SD</u>	T.V.S.	—	—	—	—	—
COD	—	—	—	—	—	—	—	—
TOC	—	—	—	—	—	—	—	—
TOXIC NON-METAL(PPM)	RESULT	INT	—	—	—	—	—	—
CYANIDE	<u>≤ 0.02</u>	<u>SD</u>	FLOW METER READING :	—	—	SAMPLES PRESERVED	—	—
PHENOL	<u>≤ 0.05</u>	<u>SD</u>	AFTER <u>128313</u>	—	—	BOTTLE #	PH	
	FC		BEFORE <u>128016</u>	—	—	#3	<u>1.90</u>	

	IN	OUT
TIME	<u>10:00</u>	<u>1:05</u>
TEMP.	<u>67°F</u>	<u>72°F</u>
PH	<u>2.31</u>	<u>2.15</u>

COMMENTS: 29700 JAL+

SAMPLES PRESERVED	BOTTLE #	PH
#3	<u>1.90</u>	
#4	<u>12.19</u>	
#5	<u>1.80</u>	
#6	<u>1.46</u>	
#7	<u>1.48</u>	

BERG COUNTY UTILITIES AUTHORITY

STANDARD WORK ORDER

22862

LOCATION Amber Glum, nm
50 Charles St
Westwood

METER NO. _____

WORK ORDER NO. _____

SAMPLE DATES

REQUESTED 9-1-87, PLACED 8/31
DELIVERED 9-1-87, TIME 11:05
SAMPLER BY SN 1140M, TYPE COOP

APPEARANCE

ACIDS AND BASES (PPM)	RESULT	INT	SOLIDS (PPM)	RESULT	INT	METALS (PPB)	RESULT	INT
PH (UNITS)	<u>7.30</u>	DM	T.S.	_____	_____	ALUMINUM	_____	_____
ACIDITY-TOTAL	_____	_____	T.M.S.	_____	_____	ANTIMONY	_____	_____
ALKALINITY-TOTAL	_____	_____	T.V.S.	_____	_____	ARSENIC	<u>≤ 2</u>	<u>1/2</u>
HARDNESS AS CaCO ₃	_____	_____	S.S.	<u>50</u>	AD	BARIUM	_____	_____
BIOLOGICAL(MPN/100ML)	RESULT	INT	M.S.S.	_____	_____	BERYLLIUM	_____	_____
TOTAL COLIFORM	_____	_____	V.S.S.	_____	_____	CADMIUM	<u>≤ 5</u>	<u>1/2</u>
FECAL COLIFORM	_____	_____	T.D.S.	_____	_____	CHROMIUM	<u>607</u>	<u>1/2</u>
FECAL STREP.	_____	_____	SETABLE	_____	_____	CHROMIUM +6	<u>≤ 25</u>	<u>8P</u>
CLARITY	RESULT	INT	PHOSPHOROUS (PPM)	RESULT	INT	COPPER	<u>577</u>	<u>1/2</u>
COLOR (UNITS)	<u>N/S</u>	_____	T. PHOSPHOROUS	_____	_____	IRON	_____	_____
TURBIDITY (NTU)	_____	_____	O-PHOSPHATE	_____	_____	LEAD	<u>140</u>	<u>1/2</u>
HALOGENS (PPM)	RESULT	INT	POLY-PHOSPHATE	_____	_____	MANGANESE	_____	_____
CHLORIDE	_____	_____	OTHERS (PPM)	RESULT	INT	MERCURY	<u>≤ 0.2</u>	<u>3/2</u>
FLUORIDE	_____	_____	OIL AND GREASE-TOTAL	<u>≤ 2.0</u>	SD	NICKEL	<u>164</u>	<u>1/2</u>
NITROGEN (PPM)	RESULT	INT	PET. HYDROCARB.S-TOTAL	<u>≤ 2.0</u>	SP	SELENIUM	_____	_____
T.K.N.	<u>2.57</u>	JH	T. SULFIDE	_____	_____	SILVER	_____	_____
AMMONIA-N	<u>1.12</u>	JH	SULFATE	_____	_____	SODIUM	_____	_____
ORGANIC-N	_____	_____	M.B.A.S.	_____	_____	THALLIUM	_____	_____
NITRATE	_____	_____	CONDUCTIVITY (UMHO)	_____	_____	VANADIUM	_____	_____
NITRITE	_____	_____	_____	_____	_____	ZINC	<u>707</u>	<u>1/2</u>
OXYGEN DEMAND (PPM)	RESULT	INT	ORGANICS (PPM)	RESULT	INT	_____	_____	_____
BOD	<u>12</u>	SEH	T.V.S.	_____	_____	_____	_____	_____
COD	_____	_____	_____	_____	_____	_____	_____	_____
TOC	_____	_____	_____	_____	_____	_____	_____	_____
TOXIC NON-METAL(PPM)	RESULT	INT	_____	_____	_____	_____	_____	_____
CYANIDE	<u>≤ 0.2</u>	FC	_____	_____	_____	_____	_____	_____
PHENOL	<u>≤ 0.17</u>	2/14	_____	_____	_____	_____	_____	_____

FLOW METER READING :

AFTER _____

BEFORE _____

COMMENTS: _____

Flood AlertNO Recording PH.NIS=No Sample - Another sample will be collected for this test.

SAMPLES PRESERVED

BOTTLE #	PH
#3	1.50
#4	12.34
#5	1.93
#6	1.61
#7	1.67

TS 250



Laboratory Resources INC

363 Old Hook Road
Westwood, New Jersey 07675
201-666-6644

CLIENT: 001170
Kurt Versen
10 Charles Street PO Box 677
Westwood, New Jersey 07675

Date of Report: 07/13/88
Sample ID No. 5230
Date Sample Received: 6/24/88
Collected From: See Below
Sample Collected by:
Laboratory Resources []
Client []

Parameter	Results
Cadmium	<0.010
Chromium	0.078
Copper	0.930
Lead	0.022
Nickel	0.144
Silver	0.050
Zinc	0.313

Patrick A. Gandy

Manager

All results expressed in mg/L unless otherwise stated.

All analysis performed in accordance with the latest edition of Standard Methods for the Examination of Water and Waste and the EPA Methods for Chemical Analysis of Water and Wastes.

BERGEN COUNTY UTILITIES AUTHORITY

STANDARD WORK ORDER

26410

LOCATION

KURT VERSSEN

WORK ORDER NO.

SAMPLE DATES

REQUESTED 11-1-98 PLACED 11-2

DELIVERED 11-3-98 TIME 11:51

METER NO. 0003

SAMPLED BY CWL/WF/TM TYPE CWD 2700

APPEARANCE

ACIDS AND BASES (PPM)	RESULT	INT	SOLIDS (PPM)	RESULT	INT	METALS (PPB)	RESULT	INT
PH (UNITS)			T.S.			ALUMINUM		
ACIDITY-TOTAL			T.M.S.			ANTIMONY		
ALKALINITY-TOTAL			T.V.S.			ARSENIC	≤ 2	10 ⁹
HARDNESS AS CaCO ₃			X S.S.	63	DMC	BARIUM		
BIOLOGICAL(MPN/100ML)	RESULT	INT	M.S.S.			BERYLLIUM		
TOTAL COLIFORM			V.S.S.			CADMIUM	≤ 5	10 ⁹
FECAL COLIFORM			T.D.S.			CHROMIUM	100	10 ⁹
FECAL STREP.			SETABLE			CHROMIUM +6	≤ 25	10 ⁹
CLARITY	RESULT	INT	PHOSPHOROUS (PPM)	RESULT	INT	X COPPER	22.0	10 ⁹
X COLOR (UNITS)	40	ff	T. PHOSPHOROUS			IRON		
TURBIDITY (NTU)			O-PHOSPHATE			LEAD	≤ 100	10 ⁹
HALOGENS (PPM)	RESULT	INT	POLY-PHOSPHATE			MANGANESE		
CHLORIDE			OTHERS (PPM)	RESULT	INT	MERCURY	≤ 0.2	10 ⁹
FLUORIDE			X OIL AND GREASE-TOTAL	5.0	AD	NICKEL	130	10 ⁹
NITROGEN (PPM)	RESULT	INT	X PET.HYDROCARB.S-TOTAL	≤ 2.0	AD	SELENIUM		
X T.K.N.	1.1	ff	T. SULFIDE			SILVER	≤ 10	10 ⁹
X AMMONIA-N	≤ 1.0	80	SULFATE			SODIUM		
ORGANIC-N			M.B.A.S.			THALLIUM		
NITRATE			CONDUCTIVITY (µMHO)			VANADIUM		
NITRITE						ZINC	1810	10 ⁹
OXYGEN DEMAND (PPM)	RESULT	INT						
X BOD	6.3	11/18	X Microtox 2.1	0.77	ff			
COD			ORGANICS (PPM)	RESULT	INT	X TTO	0.063	mg/l
TOC			GC/MS			TS105		
TOXIC NON-METAL(PPM)	RESULT	INT						
X CYANIDE	≤ .02	fc						
X PHENOL	≤ .05	ml						

FLOW METER READING :

AFTER 7 P.C.

BEFORE 7 P.C.

COMMENTS:

pH METER SHOULD BE

PLACED IN CHAMBER TO

MONITOR pH

SAMPLES PRESERVED

BOTTLE #	PH
#3	1.65
#4	12.60
#5	1.88
#6	1.97
#7	1.97
#2	15.47

P.T.O.

	IN	OUT
TIME	11:51	12:52:38
TEMP.	15 °C	18 °C
PH	2.48	11.89



Laboratory Resources INC

JAN 10 1989

363 Old Hook Road
Westwood, New Jersey 07675
201-666-6644

CLIENT: 001170
Kurt Versen
10 Charles Street PO Box 677
Westwood, New Jersey 07675

Date of Report: 01/06/89
Sample ID No. 88122228,01-04
Date Sample Received: 12/15/88
Collected From: See Below
Sample Collected by:
Laboratory Resources []
Client [✓]

Parameter	#1	#2	#3	#4
BOD 5-Day	1.0	-	-	-
Total Cyanide	<0.01	-	-	-
Ammonia	0.61	-	-	-
TKN	0.71	-	-	-
Oil & Grease	<5.0	-	-	-
Petroleum Hydrocarbons	<5.0	-	-	-
pH	6.8	6.4	6.4	6.4
Suspended Solids	16.0	-	-	-
Cadmium	0.011	-	-	-
Chromium	0.068	-	-	-
Copper	0.406	-	-	-
Lead	<0.020	-	-	-
Nickel	0.165	-	-	-
Zinc	0.527	-	-	-
Chromium Hexavalent	<0.050	-	-	-

Manager

All results expressed in mg/L unless otherwise stated.

All analysis performed in accordance with the latest edition of Standard Methods for the Examination of Water and Waste and the EPA Methods for Chemical Analysis of Water and Wastes.

BERGEN COUNTY UTILITIES AUTHORITY

ID 121531

STANDARD WORK ORDER

WORK ORDER NO. 35045

LOCATION Kurt Uzman Co
50 Charles St
Westwood

SAMPLE DATES

REQUESTED 9/10/93, PLACED 9/10
DELIVERED 9/10/93, TIME FPC
SAMPLED BY J. T. O., TYPE Camp

METER NO. 2003

APPEARANCE

ACIDS AND BASES (PPM)	RESULT	INT	SOLIDS (PPM)	RESULT	INT	METALS (PPB)	RESULT	INT
PH (UNITS)			T.S.			ALUMINUM		
ACIDITY-TOTAL			T.M.S.			ANTIMONY		
ALKALINITY-TOTAL			T.V.S.			ARSENIC	<u>≤ 2</u>	MB
HARDNESS AS CaCO ₃			S.S.	<u>65</u>	mg/c	BARIUM		
BIOLOGICAL(MPN/100ML)	RESULT	INT	M.S.S.			BERYLLIUM	<u>≤ 5</u>	MB
TOTAL COLIFORM			V.S.S.			CADMIUM	<u>90</u>	MB
FECAL COLIFORM			T.D.S.			CHROMIUM	<u>≤ 25</u>	RPL
FECAL STREP.			SETABLE			CHROMIUM +6	<u>526</u>	MB
CLARITY	RESULT	INT	PHOSPHOROUS (PPM)	RESULT	INT	COPPER		
COLOR (UNITS)			T. PHOSPHOROUS			IRON		
TURBIDITY (NTU)			O-PHOSPHATE			LEAD	<u>≤ 100</u>	MB
HALOGENS (PPM)	RESULT	INT	POLY-PHOSPHATE			MANGANESE		
CHLORIDE			OTHERS (PPM)	RESULT	INT	MERCURY	<u>≤ 0.2</u>	MB
FLUORIDE			✓ OIL AND GREASE-TOTAL	<u>14.9</u>	ppb	NICKEL	<u>40</u>	MB
NITROGEN (PPM)	RESULT	INT	✓ PET. HYDROCARB.S-TOTAL	<u>12.3</u>	ppb	SELENIUM		
T.K.N.	<u>1.8</u>	RPL	T. SULFIDE			SILVER	<u>≤ 10</u>	MB
AMMONIA-N	<u>≤ 1.0</u>	RPL	SULFATE			SODIUM		
ORGANIC-N			M.B.A.S.			THALLIUM		
NITRATE			CONDUCTIVITY (µMHO)			VANADIUM		
NITRITE						ZINC	<u>849</u>	MB
OXYGEN DEMAND (PPM)	RESULT	INT						
BOD	<u>*30</u>	ppb						
COD								
TOC								
TOXIC NON-METAL(PPM)	RESULT	INT	FLOW METER READING :			SAMPLES PRESERVED		
CYANIDE	<u>0.02</u>	ppm	AFTER	<u>115741</u>		BOTTLE #	PH	
PHENOL	<u>≤ .05</u>	ppm	BEFORE	<u>115495</u>		#3	<u>1.41</u>	

COMMENTS: 1117

	IN	OUT
TIME	<u>10:30</u>	<u>9:30</u>
TEMP.	<u>23.7</u>	<u>24.</u>
PH	<u>6.18</u>	<u>6.24</u>

Record D.H. Meter 9/27-9/28
Temperature & depth est 5-1

SAMPLES PRESERVED
BOTTLE #
#4
#5
#6
#7

P.T.O.

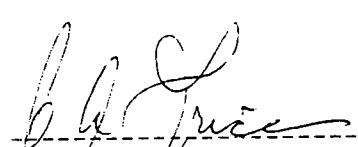
2

Acc

LABORATORY RESOURCES, INC. DATE OF RECEIVED: 07/17/87 CLERK: KURT VERSSEN
 207 1/2 ROCK ROAD DATE SAM. COLLECTED: 07/16/87
 WESTWOOD, NJ 07675 DATE SAM. RECEIVED: 07/18/87
 (201) 666-6644 DATE OF ANALYSIS: 07/18/87
 LAB IDENTIFICATION NO. 82098

PARAMETER	SAMPLE ID	4601	ANALYZED BY
CHLOROMETHANE	<	0.010	J.W.H.
BROMOMETHANE	<	0.010	J.W.H.
TRICHLOROFLUOROMETHANE	<	0.010	J.W.H.
VINYLM CHLORIDE	<	0.010	J.W.H.
CHLOROETHANE	<	0.010	J.W.H.
METHYLENE CHLORIDE	<	0.010	J.W.H.
TRICHLOROFLUOROMETHANE	<	0.010	J.W.H.
1,1 - DICHLOROETHENE	<	0.010	J.W.H.
1,1 - DICHLOROETHANE	<	0.010	J.W.H.
TRANS-1,2-DICHLOROETHENE	<	0.010	J.W.H.
CHLOROFORM	<	0.010	J.W.H.
1,1-DICHLOROETHANE	<	0.010	J.W.H.
1,1,1-TRICHLOROETHANE	<	0.010	J.W.H.
CARBON TETRACHLORIDE	<	0.010	J.W.H.
BROMODICHLOROMETHANE	<	0.010	J.W.H.
1,2-DICHLOROPROPANE	<	0.010	J.W.H.
TRANS-1,3-DICHLOROPROPENE	<	0.010	J.W.H.
TRICHLOROETHENE	<	0.010	J.W.H.
DIBROMOCHLOROMETHANE	<	0.010	J.W.H.
1,1,1-TRICHLOROETHANE	<	0.010	J.W.H.
1,1,1,3-TETRACHLOROPROPENE	<	0.010	J.W.H.
2-CHLOROETHYL VINYL ETHER	<	0.010	J.W.H.
BROMOFORM	<	0.010	J.W.H.
1,1,2,2-TETRACHLOROETHANE	<	0.010	J.W.H.
TETRACHLOROETHENE	<	0.010	J.W.H.
CHLOROBENZENE	<	0.010	J.W.H.

ALL RESULTS EXPRESSED IN MOVL
METHOD 805.1


 J.A. FRICK
 MANAGER/LABORATORY SERVICES

LABORATORY RESOURCES, INC.
300 OLD HOCK ROAD
WESTWOOD, NJ 07661
(201) 868-4646
LAB CERTIFICATION NO. 02046

DATE OF REPORT: 12/13/87 CLIENT KURT VERGEN
DATE SAM. COLLECTED: 12/02/87 10 CHARLES STREET
DATE SAM. RECEIVED: 12/02/87 WESTWOOD, NJ 07661
DATE OF ANALYSIS: 12/04/87

PARAMETER	SAMPLE ID #	6350	ANALYZED BY
CHLOROMETHANE	< 0.005		F.W.B.
BROMOMETHANE	< 0.005		F.W.B.
DICHLOROFLUOROMETHANE	< 0.005		F.W.B.
VINYL CHLORIDE	< 0.005		F.W.B.
CHLOROETHANE	< 0.005		F.W.B.
METHYLENE CHLORIDE	< 0.005		F.W.B.
TRICHLOROFLUOROMETHANE	< 0.005		F.W.B.
1,1 - DICHLOROETHENE	< 0.005		F.W.B.
1,1 - DICHLOROETHANE	< 0.005		F.W.B.
TRANS-1,2-DICHLOROETHENE	< 0.005		F.W.B.
CHLOROFORM	< 0.005		F.W.B.
1,2-DICHLOROETHANE	< 0.005		F.W.B.
1,1,1-TRICHLOROETHANE	< 0.005		F.W.B.
CARBON TETRACHLORIDE	< 0.005		F.W.B.
BROMODICHLOROMETHANE	< 0.005		F.W.B.
1,2-DICHLOROPROPANE	< 0.005		F.W.B.
TRANS-1,3-DICHLOROPROPENE	< 0.005		F.W.B.
TRICHLOROETHENE	0.033		F.W.B.
2-BROMOCHLOROMETHANE	< 0.005		F.W.B.
1,1,2-TRICHLOROETHANE	< 0.005		F.W.B.
CIS-1,3-DICHLOROPROPENE	< 0.005		F.W.B.
2-CHLOROETHYL VINYL ETHER	< 0.005		F.W.B.
BROMOFORM	< 0.005		F.W.B.
1,1,2,2-TETRACHLOROETHANE	< 0.005		F.W.B.
TETRACHLOROETHENE	< 0.005		F.W.B.
CHLOROBENZENE	< 0.005		F.W.B.

ALL RESULTS EXPRESSED IN MG/L
METHOD 502.1


C. A. PRICE
MANAGER/LABORATORY SERVICES

LABORATORY RESOURCES, INC.
 363 OLD HOCK ROAD
 WESTWOOD, NJ 07675
 (201) 666-6644
 LAB CERTIFICATION NO. 02046

DATE OF REPORT: 01/03/88 CLIENT KURT VERSEN
 DATE SA. COLLECTED: 12/15/88
 DATE SA. RECEIVED: 12/15/88
 DATE OF ANALYSIS: 12/28/88
 WORK ORDER #: 8812228

PARAMETER	SAMPLE ID >	1	ANALYZED BY
CHLOROMETHANE	< 0.001		J.N.C.
BROMOMETHANE	< 0.001		J.N.C.
DICHLOROPFLUOROMETHANE	< 0.001		J.N.C.
VINYL CHLORIDE	< 0.001		J.N.C.
CHLOROETHANE	< 0.001		J.N.C.
METHYLENE CHLORIDE	< 0.001		J.N.C.
TRICHLOROPFLUOROMETHANE	< 0.001		J.N.C.
1,1 - DICHLOROETHENE	< 0.001		J.N.C.
1,1 - DICHLOROETHANE	< 0.001		J.N.C.
TRANS-1,2-DICHLOROETHENE	< 0.001		J.N.C.
CHLOROFORM	< 0.001		J.N.C.
1,2-DICHLOROETHANE	< 0.001		J.N.C.
1,1,1-TRICHLOROETHANE	< 0.001		J.N.C.
CARBON TETRACHLORIDE	< 0.001		J.N.C.
BROMODICHLOROMETHANE	< 0.001		J.N.C.
1,2-DICHLOROPROPANE	< 0.001		J.N.C.
TRANS-1,3-DICHLOROPROPENE	< 0.001		J.N.C.
TRICHLOROETHENE	0.029 *		J.N.C.
DIBROMOCHLOROMETHANE	< 0.001		J.N.C.
1,1,2-TRICHLOROETHANE	< 0.001		J.N.C.
1,3-DICHLOROPROPENE	< 0.001		J.N.C.
2-CHLOROETHYL VINYL ETHER	< 0.001		J.N.C.
BROMOFORM	< 0.001		J.N.C.
1,1,2,2-TETRACHLOROETHANE	< 0.001		J.N.C.
TETRACHLOROETHENE	< 0.001		J.N.C.
CHLOROBENZENE	< 0.001		J.N.C.

"*" INDICATES CONCENTRATION ABOVE MINIMUM DETECTION LIMIT

ALL RESULTS EXPRESSED IN MG/L
 METHOD 601

William J. Murray
 GC SUPERVISOR
Kurt Versen
 LABORATORY MANAGER

LABORATORY RESOURCES, INC.
363 OLD HOOK ROAD
WESTWOOD, NJ 07675
LAB. CERTIFICATION: NJ 02046
NY 10588

DATE OF REPORT: 05/11/89
DATE RECEIVED : 04/28/89
DATE ANALYZED : 05/02/89

CLIENT : BCUA 28439 TS-2E
LAB SAMPLE : 8904379-01
ANALYST : FEKETE WJ
FILE NAME : >B2725

GC/MS VOLATILE ORGANICS REPORT

COMPOUND NAME	CONC. UG/L	COMPOUND NAME	CONC. UG/L
CHLOROMETHANE	10. U	1,2-DICHLOROPROPANE	5. U
VINYL CHLORIDE	10. U	BROMODICHLOROMETHANE	2. J
BROMOMETHANE	10. U	2-CHLOROETHYL VINYLETHER	5. U
CHLOROETHANE	10. U	TRANS-1,3-DICHLOROPROPENE	5. U
ACROLEIN	10. U	CIS-1,3-DICHLOROPROPENE	5. U
TRICHLOROFLUOROMETHANE	5. U	1,1,2-TRICHLOROETHANE	5. U
1,1-DICHLOROETHENE	5. U	DIBROMOCHLOROMETHANE	5. U
CARBON DISULFIDE	5. U	BROMOFORM	5. U
ACETONE	10. U	4-METHYL-2-PENTANONE	10. U
ACRYLONITRILE	10. U	TOLUENE	1. J
METHYLENE CHLORIDE	11. B	TETRACHLOROETHENE	5. U
TRANS-1,2-DICHLOROETHENE	5. U	2-HEXANONE	10. U
1,1-DICHLOROETHANE	5. U	CHLOROBENZENE	5. U
CHLOROFORM	5.	ETHYL BENZENE	5. U
1,2-DICHLOROETHANE	5. U	M,P-XYLENE	1. J
VINYL ACETATE	10. U	O-XYLENE	4. J
2-BUTANONE	10. U	STYRENE	5. U
1,1,1-TRICHLOROETHANE	5. U	1,1,2,2-TETRACHLOROETHANE	5. U
CARBON TETRACHLORIDE	5. U	1,3-DICHLOROBENZENE	5. U
BENZENE	5. U	1,4-DICHLOROBENZENE	5. U
TRICHLOROETHENE	15.	1,2-DICHLOROBENZENE	5. U

SURROGATE RECOVERY REPORT

COMPOUND NAMES	CONC UG/L	%REC
1,2-DICHLOROETHANE-D4	52.01	104
TOLUENE-D8	52.39	105
4-BROMOFLOUROBENZENE	50.93	102

===== Qualifiers =====

U - Compound analyzed for and not detected; detection limit shown
J - Estimated value; less than detection limit
B - Compound also present in blank

LABORATORY RESOURCES, INC.
160 OLD ROCK ROAD
WESTWOOD, NJ 07667
(201) 668-6644

LAB CERTIFICATION NO. 00846

DATE OF REPORT:
DATE QA. COLLECTED:
DATE QA. RECEIVED:
DATE OF ANALYSIS:

09/21/87
09/28/87
10/09/87
09/11/87

SIGNATURE KURT VERSEN
10 CHARLES ST
WESTWOOD, NJ 07667

PARAMETER	BATCH #	1708	1709	ANALYST
CHLOROMETHANE	< 0.010	< 0.001		J.W.H.
BROMOMETHANE	< 0.010	< 0.001		J.W.H.
DICHLORODIFLUOROMETHANE	< 0.010	< 0.001		J.W.H.
VINYL CHLORIDE	< 0.010	< 0.001		J.W.H.
CHLOROETHANE	< 0.010	< 0.001		J.W.H.
METHYLENE CHLORIDE	< 0.010	< 0.001		J.W.H.
TRICHLORODIFLUOROMETHANE	< 0.010	< 0.001		J.W.H.
1,1 - DICHLOROETHENE	< 0.010	< 0.001		J.W.H.
1,1 - DICHLOROETHANE	< 0.004	< 0.001		J.W.H.
TRANS-1,2-DICHLOROETHENE	< 0.010	< 0.001		J.W.H.
CHLOROFORM	< 0.010	< 0.001		J.W.H.
1,2-DICHLOROETHANE	< 0.010	< 0.001		J.W.H.
1,1,1-TRICHLOROETHANE	< 0.010	< 0.001		J.W.H.
CARBON TETRACHLORIDE	< 0.010	< 0.001		J.W.H.
BROMODICHLOROMETHANE	< 0.010	< 0.001		J.W.H.
1,2-DICHLOROPROPANE	< 0.010	< 0.001		J.W.H.
TRANS-1,3-DICHLOROPROPENE	< 0.010	< 0.001		J.W.H.
TRICHLOROETHENE	< 0.010	< 0.001		J.W.H.
DI(BROMOCHLOROMETHANE)	< 0.010	< 0.001		J.W.H.
1,1,2-TRICHLOROETHANE	< 0.010	< 0.001		J.W.H.
CIS-1,3-DICHLOROPROPENE	< 0.010	< 0.001		J.W.H.
2-CHLOROETHYL VINYL ETHER	< 0.010	< 0.001		J.W.H.
BROMOFORM	< 0.010	< 0.001		J.W.H.
1,1,2,2-TETRACHLOROETHANE	< 0.010	< 0.001		J.W.H.
TETRACHLOROETHENE	< 0.010	< 0.001		J.W.H.
CHLORBENZENE	< 0.010	< 0.001		J.W.H.

ALL RESULTS EXPRESSED IN MG/L
METHOD 502.1

J.A. Price
J.A. PRICE
MANAGER/LABORATORY SERVICES

LABORATORY RESOURCES, INC.
363 OLD HOOK ROAD
WESTWOOD, NJ 07675
LAB. CERTIFICATION: NJ 02046
NY 10588

DATE OF REPORT: 11/15/88
DATE RECEIVED : 11/04/88
DATE ANALYZED : 11/08/88

CLIENT : BCUA #26410 TS-10F
LAB SAMPLE : #9197
ANALYST : FEKETE WJ
FILE NAME : >B1553

TS-10F

VOLATILE ORGANICS REPORT

COMPOUND NAME	CONC. ug/l	COMPOUND NAME	CONC. ug/l
CHLOROMETHANE	10. U	1,2-DICHLOROPROPANE	5. U
VINYL CHLORIDE	10. U	BROMODICHLOROMETHANE	2. J
BROMOMETHANE	10. U	2-CHLOROETHYL VINYLETHER	5. U
CHLOROETHANE	10. U	TRANS-1,3-DICHLOROPROPENE	5. U
ACROLEIN	10. U	CIS-1,3-DICHLOROPROPENE	5. U
TRICHLOROFLUOROMETHANE	5. U	1,1,2-TRICHLOROETHANE	5. U
1,1-DICHLOROETHENE	5. U	DIBROMOCHLOROMETHANE	5. U
CARBON DISULFIDE	5. U	BROMOFORM	5. U
ACETONE	50.	4-METHYL-2-PENTANONE	10. U
ACRYLONITRILE	10. U	TOLUENE	5. U
METHYLENE CHLORIDE	7. B	TETRACHLOROETHENE	5. U
TRANS-1,2-DICHLOROETHENE	5. U	2-HEXANONE	10. U
1,1-DICHLOROETHANE	5. U	CHLOROBENZENE	5. U
CHLOROFORM	7.	ETHYL BENZENE	5. U
1,2-DICHLOROETHANE	5. U	M,P-XYLENE	4. J
VINYL ACETATE	10. U	O-XYLENE	2. J
2-BUTANONE	10. U	STYRENE	5. U
1,1,1-TRICHLOROETHANE	5. U	1,1,2,2-TETRACHLOROETHANE	5. U
CARBON TETRACHLORIDE	5. U	1,3-DICHLOROBENZENE	5. U
BENZENE	5. U	1,4-DICHLOROBENZENE	5. U
TRICHLOROETHENE	40.	1,2-DICHLOROBENZENE	5. U

SURROGATE RECOVERY REPORT

COMPOUND NAMES	CONC ug/l	%REC
1,2-DICHLOROETHANE-D4	49.69	99
TOLUENE-D8	47.35	95
4-BROMOFLOUROBENZENE	48.03	96

===== Qualifiers =====

U - Compound analyzed for and not detected; detection limit shown

J - Estimated value; less than detection limit

B - Compound also present in blank

LABORATORY RESOURCES, INC.
363 OLD HOOK ROAD
WESTWOOD, NJ 07675
(201) 666-6644
LAB CERTIFICATION NO. 02046

DATE OF REPORT: 06/26/89
DATE SA. COLLECTED: 06/16/89
DATE SA. RECEIVED: 06/16/89
DATE OF ANALYSIS: 06/20/89
WORK ORDER #: 8906244

CLIENT KURT VERSEN
ANALYST: J.N.C.

PARAMETER	SAMPLE ID >	2	MDL
CHLOROMETHANE		ND	0.001
BROMOMETHANE		ND	0.001
DICHLOROFLUOROMETHANE		ND	0.001
VINYL CHLORIDE		ND	0.001
CHLOROETHANE		ND	0.001
METHYLENE CHLORIDE		ND	0.001
TRICHLOROFLUOROMETHANE		ND	0.001
1,1 - DICHLOROETHENE		ND	0.001
1,1 - DICHLOROETHANE		ND	0.001
TRANS-1,2-DICHLOROETHENE		ND	0.001
CHLOROFORM		0.021	0.001
1,2-DICHLOROETHANE		ND	0.001
1,1,1-TRICHLOROETHANE		ND	0.001
CARBON TETRACHLORIDE		ND	0.001
BROMODICHLOROMETHANE		0.006	0.001
1,2-DICHLOROPROPANE		ND	0.001
TRANS-1,3-DICHLOROPROPENE		ND	0.001
TRICHLOROETHENE		0.050	0.001
DIBROMOCHLOROMETHANE		ND	0.001
1,1,2-TRICHLOROETHANE		ND	0.001
1,3-DICHLOROPROPENE		ND	0.001
2-CHLOROETHYL VINYL ETHER		ND	0.001
BROMOFORM		ND	0.001
1,1,2,2-TETRACHLOROETHANE		ND	0.001
TETRACHLOROETHENE		ND	0.001
CHLOROBENZENE		ND	0.001

"MDL"=MINIMUM DETECTION LIMIT

"ND"=NOT DETECTED AT MDL

ALL RESULTS EXPRESSED IN MG/L

METHOD 601

William J. Currier
ORGANICS MANAGER

ANALYTE COMPOUNDS

PEAK NUM.	COMPOUND NAME	RET TIME	QUANT ION	CONC. uG/L	QUAL ION1	QUAL/ QUANT%	QUAL ION2	QUAL/ QUANT%	OK INI
1	Chloromethane	1.123	50.0	2.24U	52.0	-	-	-	-
2	Bromomethane	1.878	94.0	1.46U	96.0	-	-	-	-
3	Vinyl Chloride	2.409	62.0	1.40U	64.0	-	-	-	-
4	Chloroethane	3.334	64.0	0.90U	66.0	-	-	-	-
5	Methylene Chloride	5.167	84.0	3.40U	49.0	-	51.0	-	-
6	Trichlorofluoromethane	7.353	101.0	3.84U	103.0	-	-	-	-
7	1,1-DichloroethEne	8.125	96.0	5.18U	61.0	-	98.0	-	-
9	1,1-DichloroehAne	9.420	63.0	3.14U	65.0	-	83.0	-	-
10	1,2-DichloroethEne, trans-	10.171	96.0	6.36U	61.0	-	98.0	-	-
11	Chloroform	10.756	83.0	3.18U	85.0	-	-	-	-
12	1,2-DichloroethAne	11.525	62.0	4.24U	64.0	-	98.0	-	-
13	1,1,1-TrichloroethAne	12.731	97.0	1.92U	99.0	-	117.0	-	-
14	Carbon Tetrachloride	13.106	117.0	-	2.50U	119.0	-	121.0	-
15	Bromodichloromethane	13.775	83.0	1.38U	85.0	-	127.0	-	-
16	1,2-DichloropropAne	15.119	63.0	1.28U	65.0	-	112.0	-	-
17	1,3-DichloropropEne, cis-	15.418	75.0	2.42U	77.0	-	-	-	-
18	TrichloroethEne	16.028	130.0	30.0	97.0	63.8	132.0	99.7	Or
19	Benzene	16.387	78.0	1.36U	-	-	-	-	-
20	Dibromochloromethane	16.544	127.0	1.80U	129.0	-	208.0	-	-
21	1,1,2-TrichloroethAne	16.687	97.0	1.54U	99.0	-	83.0	-	-
22	1,3-DichloropropEne, trans-	16.738	75.0	2.24U	77.0	-	110.0	-	-
23	2-Chloroethylvinyl Ether	17.812	106.0	2.90U	63.0	-	65.0	-	-
25	Bromoform	19.309	173.0	1.26U	171.0	-	175.0	-	-
26	1,1,2,2-TetrachloroethAne	21.478	85.0	3.58U	83.0	-	131.0	-	-
27	TetrachloroethEne	21.481	164.0	4.60U	129.0	-	131.0	-	-
29	Toluene	22.779	92.0	3.40U	91.0	-	-	-	-
30	Chlorobenzene	23.901	112.0	3.82U	114.0	-	-	-	-
31	Ethylbenzene	25.695	106.0	4.84U	91.0	-	-	-	-
32	M-Xylene	29.132	106.0	7.00U	91.0	-	-	-	-
33	O,P-Xylenes	29.893	106.0	7.00U	91.0	-	-	-	-
34	1,3-Dichlorobenzene	32.758	146.0	5.40U	148.0	-	113.0	-	-
35	1,2-Dichlorobenzene	33.536	146.0	5.40U	148.0	-	113.0	-	-
36	1,4-Dichlorobenzene	34.010	146.0	5.40U	148.0	-	113.0	-	-

QUALIFIERS:

"U" - Compound not detected, detection limit reported.

"J" - Reported concentration is less than detection limit.

"B" - Compound found in blank.

"*" - (In Qual/Quant% column) Qualifier ion not found - Compound I.D. may be suspect.

LABORATORY RESOURCES, INC.
 13 OLD HOOK ROAD
 WESTWOOD, NJ 07675
 (201) 666-6644
 LAB CERTIFICATION NO. 02046

DATE OF REPORT: 12/06/89 CLIENT KURT VERSEN
 DATE SA. COLLECTED: 11/29/89
 DATE SA. RECEIVED: 11/29/89 ANALYST: SGC
 DATE OF ANALYSIS: 12/01/89
 WORK ORDER #: 8911296

CLIENT ID. > GRAB 1

PARAMETER	SAMPLE ID >	01	BLANK	MDL
CHLOROMETHANE		ND	ND	0.001
BROMOMETHANE		ND	ND	0.001
DICHLOROFUOROMETHANE		ND	ND	0.001
VINYL CHLORIDE		ND	ND	0.001
CHLOROETHANE		ND	ND	0.001
METHYLENE CHLORIDE		ND	ND	0.001
TRICHLOROFUOROMETHANE		ND	ND	0.001
1,1 - DICHLOROETHENE		ND	ND	0.001
1,1 - DICHLOROETHANE		ND	ND	0.001
TRANS-1,2-DICHLOROETHENE		ND	ND	0.001
CHLOROFORM		0.007	ND	0.001
1,2-DICHLOROETHANE		ND	ND	0.001
1,1,1-TRICHLOROETHANE		ND	ND	0.001
CARBON TETRACHLORIDE		ND	ND	0.001
BROMODICHLOROMETHANE		0.003	ND	0.001
1,2-DICHLOROPROPANE		ND	ND	0.001
TRANS-1,3-DICHLOROPROPENE		ND	ND	0.001
TRICHLOROETHENE		0.033	ND	0.001
DIBROMOCHLOROMETHANE		ND	ND	0.001
1,1,2-TRICHLOROETHANE		ND	ND	0.001
1,3-DICHLOROPROPENE		ND	ND	0.001
2-CHLOROETHYL VINYL ETHER		ND	ND	0.001
BROMOFORM		ND	ND	0.001
1,1,2,2-TETRACHLOROETHANE		ND	ND	0.001
TETRACHLOROETHENE		ND	ND	0.001
CHLOROBENZENE		ND	ND	0.001

"MDL"=MINIMUM DETECTION LIMIT
 "ND"=NOT DETECTED AT MDL

ALL RESULTS EXPRESSED IN MG/L
 METHOD 601

William J. Curran
 ORGANICS MANAGER

ANALYTE COMPOUNDS

COMPOUND NAME	RET TIME	QUANT ION	CONC. uG/L	QUAL ION1	QUAL/ QUANT%	QUAL ION2	QUAL/ QUANT%	OK INI
Chloromethane	1.187	50.0	2.24U	52.0	-	—	—	-
Bromomethane	1.999	94.0	1.46U	96.0	-	—	—	-
Vinyl Chloride	2.560	62.0	1.40U	64.0	-	—	—	-
Chloroethane	3.557	64.0	0.90U	66.0	-	—	—	-
Methylene Chloride	5.674	84.0	3.40U	49.0	-	51.0	—	-
Trichlorofluoromethane	7.756	101.0	3.84U	103.0	-	—	98.0	-
1,1-DichloroethEne	8.475	96.0	5.18U	61.0	-	83.0	—	-
1,1-DichloroehtAne	9.733	63.0	3.14U	65.0	-	98.0	—	-
1,2-DichloroethEne, trans-	10.476	96.0	6.36U	61.0	-	—	—	-
Chloroform	11.064	83.0	2.15J	85.0	*	—	98.0	-
1,2-DichloroethAne	11.765	62.0	4.24U	64.0	-	—	117.0	-
1,1,1-TrichloroethAne	12.992	97.0	1.92U	99.0	-	121.0	—	-
Carbon Tetrachloride	13.375	117.0	2.50U	119.0	-	—	127.0	-
Bromodichloromethane	13.949	83.0	1.38U	85.0	-	—	112.0	-
1,2-DichloropropAne	15.264	63.0	1.28U	65.0	-	—	—	-
1,3-DichloropropEne, cis-	15.532	75.0	2.42U	77.0	-	—	—	-
TrichloroethEne	16.121	130.0	60.9	97.0	63.3	132.0	97.0	RC
Benzene	16.586	78.0	1.36U	—	-	—	—	-
Dibromochloromethane	16.721	127.0	1.80U	129.0	-	208.0	—	-
1,3-DichloropropEne, trans-	16.812	75.0	2.24U	77.0	-	110.0	—	-
1,1,2-TrichloroethAne	16.825	97.0	1.54U	99.0	-	83.0	—	-
2-Chloroethylvinyl Ether	17.883	106.0	2.90U	63.0	-	65.0	—	-
Bromoform	19.391	173.0	1.26U	171.0	-	175.0	—	-
1,1,2,2-TetrachloroethAne	21.683	85.0	3.58U	83.0	-	131.0	—	-
TetrachloroethEne	21.745	164.0	4.60U	129.0	-	131.0	—	-
Toluene	23.002	92.0	3.40U	91.0	-	—	—	-
Chlorobenzene	24.138	112.0	3.82U	114.0	-	—	—	-
Ethylbenzene	25.955	106.0	4.84U	91.0	-	—	—	-
M-Xylene	29.610	106.0	7.00U	91.0	-	—	—	-
O,P-Xylenes	30.431	106.0	7.00U	91.0	-	—	—	-
1,3-Dichlorobenzene	33.553	146.0	5.40U	148.0	-	113.0	—	-
1,2-Dichlorobenzene	34.446	146.0	5.40U	148.0	-	113.0	—	-
1,4-Dichlorobenzene	34.902	146.0	5.40U	148.0	-	113.0	—	-

QUALIFIERS:

"U" - Compound not detected, detection limit reported.

"J" - Reported concentration is less than detection limit.

"B" - Compound found in blank.

"*" - (In Qual/Quant% column) Qualifier ion not found - Compound I.D. may be suspect.


Laboratory Resources INC

A UNITED WATER RESOURCES COMPANY

363 Old Hook Road
 Westwood, New Jersey 07675-3235
 (201) 666-6644 • FAX: (201) 666-7978

CLIENT: K VERSEN
 ANALYST: E. SALERNO

NJ Certification # 02046

NY Certification # 10588

DATE OF REPORT:	06/08/90
DATE SA. COLLECTED:	06/01/90
DATE SA. RECEIVED:	06/01/90
DATE OF ANALYSIS:	06/04/90
WORK ORDER #:	9006019

PARAMETER	CLIENT ID. > GRAB 1 SAMPLE ID > 01	BLANK	MDL
BROMODICHLOROMETHANE	0.001	ND	0.001
BROMOFORM		ND	0.001
BROMOMETHANE		ND	0.001
CARBON TETRACHLORIDE		ND	0.001
CHLOROBENZENE		ND	0.001
CHLOROETHANE		ND	0.001
2-CHLOROETHYL VINYL ETHER		ND	0.001
CHLOROFORM	0.004	ND	0.001
CHLOROMETHANE		ND	0.001
DIBROMOCHLOROMETHANE		ND	0.001
1,2-DICHLOROBENZENE		ND	0.001
1,3-DICHLOROBENZENE		ND	0.001
1,4-DICHLOROBENZENE		ND	0.001
DICHLORODIFLUOROMETHANE		ND	0.001
1,1-DICHLOROETHANE		ND	0.001
1,2-DICHLOROETHANE		ND	0.001
1,1-DICHLOROETHENE		ND	0.001
TRANS-1,2-DICHLOROETHENE		ND	0.001
1,2-DICHLOROPROPANE		ND	0.001
CIS-1,3-DICHLOROPROPENE		ND	0.001
TRANS-1,3-DICHLOROPROPENE		ND	0.001
METHYLENE CHLORIDE	0.025	0.002	0.001
1,1,2,2-TETRACHLOROETHANE		ND	0.001
TETRACHLOROETHENE		ND	0.001
1,1,1-TRICHLOROETHANE		ND	0.001
1,1,2-TRICHLOROETHANE		ND	0.001
TRICHLOROETHENE	0.037	ND	0.001
TRICHLOROFUOROMETHANE		ND	0.001
VINYL CHLORIDE		ND	0.001

MDL=MINIMUM DETECTION LIMIT
 ND = NOT DETECTED AT MDL

METHOD 601


 ORGANICS MANAGER

Volatile Organic Compounds Report
0928A11A.I - WO# 35040 Kurtt Versen Co. #0003

ANALYTE COMPOUNDS

REC NO.	COMPOUND NAME	RET TIME	QUANT ION	CONC. uG/L	QUAL ION1	QUAL/ QUANT%	QUAL ION2	QUAL/ QUANT%	OK? INIT
	Chloromethane	1.400	50.0	2.24U	52.0	-	—	—	
	Bromomethane	2.512	94.0	1.46U	96.0	-	—	—	
	Vinyl Chloride	3.233	62.0	1.40U	64.0	-	—	—	
	Chloroethane	4.373	64.0	0.90U	66.0	-	—	—	
	Methylene Chloride	6.649	84.0	3.40U	49.0	-	51.0	—	
	Trichlorofluoromethane	8.719	101.0	3.84U	103.0	-	—	—	
	1,1-DichloroethEne	9.399	96.0	5.18U	61.0	-	98.0	—	
	1,1-DichloroethAne	10.673	63.0	3.14U	65.0	-	83.0	—	
	1,2-DichloroethEne, trans-	11.379	96.0	6.36U	61.0	-	98.0	—	
	Chloroform	11.969	83.0	4.66	85.0	62.8	—	—	
	1,2-DichloroethAne	12.674	62.0	4.24U	64.0	-	98.0	—	
	1,1,1-TrichloroethAne	13.907	97.0	1.92U	99.0	-	117.0	—	
	Carbon Tetrachloride	14.286	117.0	2.50U	119.0	-	121.0	—	
	Bromodichloromethane	14.851	83.0	1.38U	85.0	-	127.0	—	
	1,2-DichloropropAne	16.140	63.0	1.28U	65.0	-	112.0	—	
	1,3-DichloropropEne, cis-	16.401	75.0	2.42U	77.0	-	—	—	
	TrichloroethEne	16.955	130.0	21.3	97.0	76.8	132.0	98.8	
	Benzene	17.427	78.0	1.36U	—	-	—	—	
	Dibromochloromethane	17.608	127.0	1.80U	129.0	-	208.0	—	
	1,3-DichloropropEne, trans-	17.665	75.0	2.24U	77.0	-	110.0	—	
	1,1,2-TrichloroethAne	17.694	97.0	1.54U	99.0	-	83.0	—	
	2-Chloroethylvinyl Ether	18.697	106.0	2.90U	63.0	-	65.0	—	
	Bromoform	20.267	173.0	1.26U	171.0	-	175.0	—	
	TetrachloroethEne	22.510	85.0	3.58U	83.0	-	131.0	—	
	1,1,2,2-TetrachloroethAne	22.518	164.0	4.60U	129.0	-	131.0	—	
	Toluene	23.765	92.0	3.40U	91.0	-	—	—	
	Chlorobenzene	24.911	112.0	3.82U	114.0	-	—	—	
	Ethylbenzene	26.805	106.0	4.84U	91.0	-	—	—	
	M-Xylene	30.887	106.0	7.00U	91.0	-	—	—	
	O,P-Xylenes	31.836	106.0	7.00U	91.0	-	—	—	
	1,3-Dichlorobenzene	35.484	146.0	5.40U	148.0	-	113.0	—	
	1,2-Dichlorobenzene	36.494	146.0	5.40U	148.0	-	113.0	—	
	1,4-Dichlorobenzene	37.062	146.0	5.40U	148.0	-	113.0	—	

QUALIFIERS:

- "U" - Compound not detected, detection limit reported.
- "J" - Reported concentration is less than detection limit.
- "B" - Compound found in blank.
- "*" - (In Qual/Quant% column) Qualifier ion not found - Compound I.D. may be suspect.



Laboratory Resources Inc.

A UNITED WATER RESOURCES COMPANY

363 Old Hook Road
Westwood, New Jersey 07675-3235
(201) 666-6644 • FAX: (201) 666-7978

CLIENT: KURT VERSEN
ANALYST: L. SUN

NJ Certification # 02046

NY Certification # 10566

DATE OF REPORT: 12/21/90
DATE COLLECTED: 12/11/90
DATE RECEIVED: 12/11/90
DATE OF ANALYSIS: 12/12/90
WORK ORDER #: 9012194
DILUTION: 1/2

PARAMETER	CLIENT ID. > GRAB #1	MDL
	SAMPLE ID. > 02	
BROMODICHLOROMETHANE	0.0020	0.0010
BROMOFORM	ND	0.0010
BROMOMETHANE	ND	0.0010
CARBON TETRACHLORIDE	ND	0.0010
CHLOROBENZENE	ND	0.0010
CHLOROETHANE	ND	0.0010
2-CHLOROETHYL VINYL ETHER	ND	0.0010
CHLOROFORM	0.0030	0.0010
CHLOROMETHANE	ND	0.0010
DIBROMOCHLOROMETHANE	ND	0.0010
1,2-DICHLOROBENZENE	ND	0.0010
1,3-DICHLOROBENZENE	ND	0.0010
1,4-DICHLOROBENZENE	ND	0.0010
DICHLORODIFLUOROMETHANE	ND	0.0010
1,1-DICHLOROETHANE	ND	0.0010
1,2-DICHLOROETHANE	ND	0.0010
1,1-DICHLOROETHENE	ND	0.0010
TRANS-1,2-DICHLOROETHENE	ND	0.0010
1,2-DICHLOROPROPANE	ND	0.0010
CIS-1,3-DICHLOROPROPENE	ND	0.0010
TRANS-1,3-DICHLOROPROPENE	ND	0.0010
METHYLENE CHLORIDE	0.0070	0.0010
1,1,2,2-TETRACHLOROETHANE	ND	0.0010
TETRACHLOROETHENE	ND	0.0010
1,1,1-TRICHLOROETHANE	ND	0.0010
1,1,2-TRICHLOROETHANE	ND	0.0010
TRICHLOROETHENE	0.0250	0.0010
TRICHLOROFLUOROMETHANE	ND	0.0010
VINYL CHLORIDE	ND	0.0010

MDL=MINIMUM DETECTION LIMIT
ND = NOT DETECTED AT MDL

METHOD 601

William J. Kinney, P.E.
ORGANICS MANAGER

Attached Sheet 'F'

Municipalities Served:

- | | | | |
|-------|-------------------|-------|--------------------|
| 1. | Alpine | 31. | North Bergen |
| 2. | Bergenfield | 32. | Northvale |
| 3. | Bogota | 33. | Norwood |
| 4. | Carlstadt | 34. | Old Tappan |
| 5. | Cliffside Park | 35. | Oradell |
| 6. | Closter | 36. | Palisades Park |
| 7. | Cresskill | 37. | Paramus |
| 8. | Demarest | 38. | Ridgefield |
| 9. | Dumont | 39. | Ridgefield Park |
| 10. | E. Rutherford | 40. | River Edge |
| 11. | Edgewater | 41. | River Vale |
| 12. | Emerson | 42. | Rochelle Park |
| 13. | Englewood | 43. | Rockleigh |
| 14. | Englewood Cliffs | 44. | Rutherford |
| * 15. | Fair Lawn | 45. | Saddle Brook |
| 16. | Fairview | 46. | Secaucus |
| 17. | Fort Lee | 47. | S. Hackensack |
| 18. | Guttenberg | 48. | Teanock |
| 19. | Hackensack | 49. | Tenafly |
| 20. | Harrington Park | 50. | Teterboro |
| 21. | Hasbrouck Heights | 51. | Union City |
| 22. | Haworth | 52. | Upper Saddle River |
| 23. | Hillside | * 53. | Wallington |
| 24. | Leonia | 54. | Washington Twp. |
| 25. | Little Ferry | 55. | Weehawken |
| * 26. | Lodi | 56. | West New York |
| 27. | Maywood | 57. | Westwood |
| 28. | Montvale | * 58. | Woodcliff Lakes |
| 29. | Moonachie | 59. | Wood Ridge |
| 30. | New Milford | | |

* Municipalities Partially Served